The Global 200: A Representation Approach to Conserving the Earth's Most Biologically Valuable Ecoregions

The current extinction crisis requires dramatic action to save the variety of life on Earth. Because funding for conservation action is limited, governments, donors, and conservation groups must be strategic and earmark the greatest amount of resources for protecting the areas richest in biodiversity. Most conservation biologists recognize that, although we cannot save everything, we should at least ensure that all ecosystem and habitat types are represented within regional conservation strategies (Hummel 1989; Caldecott et al. 1996; Krever et al. 1994; Noss & Cooperrider 1994; BSP (Biodiversity Support Program) et al. 1995; Dinerstein et al. 1995; United Nations Environmental Programme 1995; Ricketts et al. in press).

The "representation" approach has been applied at a number of geographical scales, from single watersheds to entire continents (Hummel 1989; Nicoll & Langrand 1989; Bedward et al. 1992; Cox et al. 1994; MacKinnon 1994; Pressey & Logan 1994; Caicco et al. 1995; Pressey et al. 1994; Dinerstein et al. 1995; Fearnside & Ferraz 1995; Johnson 1995). Here we introduce the Global 200, the first attempt to achieve representation of habitat types on a global scale. Our primary objective is to promote the conservation of terrestrial, freshwater, and marine ecosystems harboring globally important biodiversity and ecological processes. The Global 200 addresses this goal by identifying the world's most outstanding examples within each major habitat type (e.g., tropical dry forests, large lakes, coral reefs).

The representation approach, accepted by a growing number of conservationists, is soundly based in conservation biology. It integrates the goal of maintaining species diversity—the traditional focus of biodiversity conservation—with another level of conservation action, the preservation of distinct ecosystems and ecological processes. Although more than half of all species are likely to occur in the world's tropical moist forests, the other 50% of all species are found elsewhere. To conserve that half, a full representation of the world's diverse ecosystems must be the goal.

Tundra, tropical lakes, mangroves, and temperate broadleaf forests are all unique expressions of biodiversity. Although they may not support the rich communities seen in tropical rainforests or coral reefs, they contain species assemblages adapted to distinct environmental conditions and reflect different evolutionary histories. To lose examples of these assemblages, and the ecological processes and evolutionary phenomena they contain, would represent an enormous loss of biodiversity.

Although conservation action typically takes place at the country level, patterns of biodiversity and ecological processes (e.g., migration) do not conform to political boundaries. Thus, we used the ecoregion as the unit of analysis in creating the Global 200. We define an ecoregion as a relatively large unit of land or water containing a characteristic set of natural communities that share a large majority of their species, dynamics, and

environmental conditions (Dinerstein et al. 1995; The Nature Conservancy 1997). Ecoregions function effectively as conservation units at regional scales because they encompass similar biological communities and because their boundaries roughly coincide with the area over which key ecological processes most strongly interact (Orians 1993; Noss 1996).

To maintain representation of biodiversity at a global scale, we first stratified ecoregions by realm (terrestrial, freshwater, and marine) and then further divided realms by major habitat types (MHTs), which describe different areas of the world that share similar environmental conditions, habitat structure, and patterns of biological complexity (e.g., beta diversity) and that contain communities with similar guild structures and species adaptations. The MHT classifications are roughly equivalent to biomes. We identified 12 MHTs in the terrestrial realm, 3 in the freshwater realm, and 4 in the marine realm (Table 1). Each MHT was further subdivided by biogeographic realm (e.g., Nearctic, Indian Ocean) in order to represent unique faunas and floras of different continents or ocean basins. Finally, we identified ecoregions within each biogeographic realm that represent the most distinctive examples of biodiversity for a given MHT (Table 1).

The boundaries of terrestrial ecoregions for the Global 200 are taken from intensive regional analyses of biodiversity patterns across five continents undertaken by the World Wildlife Fund (WWF) Conservation

Table 1. The Global 200 ecoregions organized by terrestrial, freshwater, or marine realm; major habitat type; and biogeographic realm.

Realm and ecoregion	Biogeographic realm ^b	Conservation status ^c
Terrestrial ecoregions		
Tropical and subtropical		
moist broadleaf forests	Neotropical	
	1. Atlantic forests—Brazil, Paraguay, Argentina	CE
	2. Northern Andean montane forests—Ecuador, Colombia, Venezuela, Peru	CE
	 Andean Yungas—Ecuador, Colombia, Venezuela, Bolivia, Peru Coastal Venezuela montane forests—Venezuela 	V CE
	5. Greater Antillean moist forests—Haiti, Cuba, Dominican Republic, Jamaica,	CE
	Puerto Rico	CE
	6. Chocó-Darién moist forests—Colombia, Panama, Ecuador	V
	7. Varzea flooded forests—Peru, Brazil, Venezuela	CE
	8. Talamancan and Isthmian Pacific forests—Costa Rica, Panama	\mathbf{V}
	9. Napo moist forests—Ecuador, Colombia, Peru	RS
	10. Rio Negro-Juruá moist forests—Colombia, Brazil, Peru, Venezuela	RS
	11. Southwestern Amazonian moist forests—Peru, Brazil, Bolivia	RS
	12. Guayanan forests—Venezuela, Brazil, Guyana, Suriname, French Guiana	RS
	Afrotropical	
	13. Madagascar moist forests—Madagascar	CE
	14. Guinean moist forests—Ghana, Guinea, Côte d'Ivoire, Liberia, Sierra Leone, Togo	CE
	15. Eastern Arc montane forests—Tanzania, Kenya	CE
	16. East African coastal forests—Tanzania, Kenya, Mozambique, Somalia	CE
	17. Albertine Rift highland forests—D.R. Congo, Rwanda, Uganda, Burundi, Tanzania	CE
	18. East African highland forests—Kenya, Tanzania, Uganda	CE
	 Seychelles and Mascarene Islands forests (e.g., Mauritius, Seychelles, Comoros, Reunion, Rodrigues) 	CE
	20. Gulf of Guinea Islands forests—São Tomé and Príncipe, Equatorial Guinea,	CE
	21. Macaronesian forests (Azores, Madeira, Canary, Cape Verde Islands)	CE
	22. Congolian coastal forests—Cameroon, Gabon, R. Congo, Nigeria, Equatorial	GE.
	Guinea, Benin	CE
	23. Western Congo Basin forests—Central African Republic, Cameroon, R. Congo,	
	Gabon, D.R. Congo, Equatorial Guinea	RS
	24. Northeastern Congo Basin forests—D.R. Congo, Central African Republic, Sudan,	
	Uganda	RS
	25. Southern Congo Basin forests—D.R. Congo, Congo, Angola	RS
	Indo-Malayan	
	26. Annamite Range moist forests—Laos, Vietnam, Thailand	V
	27. Western Ghats moist forests—India	CE
	28. Sri Lankan moist forests—Sri Lanka	CE
	29. Kayah-Karen/Tenasserim moist forests—Thailand, Myanmar, Malaysia	RS
	30. Peninsular Malaysian lowland and montane forests—Malaysia, Thailand 31. Sumatran-Nicobar Islands lowland forests—Indonesia, India	CE CE
	-	V CE
	32. Sumatran montane forests—Indonesia 33. Central Borneo montane forests—Indonesia, Malaysia, Brunei	RS
	34. Northern Borneo-Palawan moist forests—Malaysia, Indonesia, Philippines, Brunei	CE
	35. Philippines moist forests—Philippines	CE
	36. Sulawesi moist forests—Indonesia	RS
	37. Moluccas moist forests—Indonesia	RS
	38. Northern Indochina subtropical moist forests—Myanmar, Thailand, Laos,	
	Vietnam, China	V
	39. Southeast China subtropical forests—China	CE
	40. Northeastern India and Myanmar hill forests—India, Myanmar, Bangladesh	RS
	41. Andaman Islands forests—India	V
	42. Taiwan montane forests—Taiwan	V
	43. Hainan Island forests—China	CE
	44. Nansei Shoto Archipelago forests—Japan	CE
	Australasian	OF.
	45. New Caledonia moist forests—New Caledonia, France	CE
	46. New Zealand tropical forests—New Zealand	CE V
	47. Queensland tropical forests—Australia 48. New Guinea montane forests—Papua New Guinea, Indonesia	V RS
	49. New Guinea holitane forests—Papua New Guinea, Indonesia	RS RS
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Realm and ecoregion	Biogeographic realm	Conservation status ^b
	50. New Guinea outer islands/Solomons moist forests—Papua New Guinea,	
	Solomon Islands	RS
	51. Lord Howe and Norfolk Island forests—Australia	CE
	Oceanian	
	52. Hawai'i moist forests—United States	CE
<i>m</i>	53. South Pacific Islands forests—Fiji, Tonga, Samoa, I Sisito, American Samoa	CE
Tropical, subtropical		
dry, and monsoon broadleaf forests	Neatropical	
broadical forests	Neotropical 54. Bolivian lowland dry forests—Bolivia, Brazil	CE
	55. Tumbesian and North Inter-Andean Valleys dry forests—Ecuador, Peru, Colombia	CE
	56. Southern Mexican dry forests—Mexico	CE
	Afrotropical	02
	57. Madagascar dry forests—Madagascar	CE
	58. Maputaland-Pondoland dry forests—South Africa, Swaziland, Mozambique	CE
	Indo-Malayan	
	59. Eastern Indochina dry and monsoon forests—Vietnam, Laos, Thailand, Cambodia	\mathbf{V}
	60. Lesser Sundas dry and monsoon forests—Indonesia	\mathbf{V}
	61. Eastern Indian monsoon forests—India	\mathbf{V}
	Australasia	0.77
	62. New Caledonia dry forests—New Caledonia, France	CE
	Oceanian 63. Hayya'' day forests. United States	CE
Tropical and subtropical	63. Hawai'i dry forests—United States	CE
conifer forests	Neotropical	
conner forests	64. Mexican pine-oak forests—Mexico, United States	CE
	65. Greater Antillean pine forests—Haiti, Cuba, Dominican Republic	CE
Temperate conifer and		~-
broadleaf forests	Nearctic	
	66. Klamath-Siskiyou coniferous forests—United States	CE
	67. Appalachian and mixed mesophytic forests—United States	CE
	68. Pacific temperate rainforests—United States, Canada	CE
	69. Sierra Nevada conifer forests—United States	CE
	70. Southeastern conifer and broadleaf forests—United States	CE
	Neotropical	CE
	71. Valdivian temperate rainforests—Chile, Argentina Palearctic	CE
	72. Russian Far East temperate forests—Russia, China	\mathbf{v}
	73. Altai-Sayan montane forests—Russia, Kazakstan, Mongolia, China	RS
	74. Caucasus and Northeast Anatolia temperate forests—Georgia, Azerbaijan,	110
	Turkey, Russia, Iran, Armenia	\mathbf{V}
	75. Middle Asian mountains temperate forests and steppe—Kyrgyzstan,	
	Turkmenistan, Afghanistan, Uzbekistan, Kazakstan, Tajikistan, Pakistan, India,	
	Mongolia, China, Iran	\mathbf{V}
	76. Western Himalayan temperate forests—Pakistan, India, Nepal	CE
	77. Southern European montane forests—Bulgaria, Greece, Spain, Italy, France,	
	Andorra, Switzerland, Austria, Slovenia, Poland, Slovakia, Hungary, Czech	CE
	Republic, Germany, Romania, Ukraine, Yugoslavia 78. Central China temperate forests—China	CE CE
	79. Eastern Himalayan broadleaf and conifer forests—Bhutan, India, Nepal,	CE
	Myanmar, China	\mathbf{V}
	Australasian	•
	80. Eastern Australia temperate forests—Australia	\mathbf{V}
	81. Tasmanian temperate rainforests—Australia	CE
	82. South Island temperate rainforests—New Zealand	RS
Boreal forests and taiga	Nearctic	
	83. Canadian boreal taiga—Canada	RS
	84. Northern Cordillera boreal forests—Canada	RS
	Palearctic 95 Control and Factors Ciberian bereal forests and taken. Puscia	D C
	85. Central and Eastern Siberian boreal forests and taiga—Russia 86. Ural Mountains boreal forests and taiga—Russia	RS RS
	87. Kamchatka boreal taiga and grasslands—Russia	RS
	07. Kainchaika dolcai taiga ahu grassiahus—Kussia	N.S

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89. Low Arctic tundra—Canada 90. Chukotsky coastal tundra—Russia 91. Taimyr coastal tundra—Russia 92. Scandinavian alpine tundra and taiga—Norway, Sweden, Finland 85 rublands 85 rublands 85 rublands 86 research as a coastal tundra—Russia 93. Patagonian steppe and grasslands—Argentina, Chile 94. Tallgrass prairies—Unlited States Palearettic 95. Eastern Himalayan alpine meadows—Bhutan, Nepal, India, Myanmar, China 87 ropical and subtropical grasslands, savannas, and shrublands 86 ribetan Plateau steppe—China, India 97 ropical and subtropical grasslands, savannas, and shrublands 87 representation of the state of	Arctic tundra	Nearctic and Palearctic	
90. Chukorsky coastal tundra—Russia RS 92. Scandinavian alpine tundra and taiga—Norway, Sweden, Finland V V V V V V V V V		88. Alaskan North Slope coastal tundra—United States, Canada	V
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118. South African montane grasslands and shrublands—South Africa, Lesotho, Swaziland CE		* * * * * * * * * * * * * * * * * * * *	CF
Swaziland CE			CE
			CF
Indo Malayan			CE
Indo-Malayan 119. Mt. Kinabalu montane and alpine scrub and forest—Malaysia RS		•	DC

Realm and ecoregion	Biogeographic realm	Conservation status ^b
	Australasian	
	120. Maoke Range alpine heathlands—Indonesia	RS
Deserts and xeric		
shrublands	Neotropical	*7
	121. Sonoran and Baja Deserts—Mexico, United States	V
	122. Chihuahuan and Tehuacán Deserts—Mexico, United States	V V
	123. Galápagos Islands scrubs—Ecuador 124. Atacama Desert—Chile	V CE
	Afrotropical	CE
	125. Namib and Karoo deserts and shrublands—South Africa, Namibia	CE
	126. Kaokoveld Desert—Namibia, Angola	V
	127. Madagascar Spiny Desert—Madagascar	ĊE
	128. Horn of Africa deserts—Somalia	\mathbf{V}
	129. Socotra Island Desert—Yemen	\mathbf{V}
	Palearctic	
	130. Central Asian deserts—Turkmenistan, Kazakstan, Uzbekistan, Tajikistan	CE
	Australasian	
	131. Sandy Australian deserts and central ranges—Australia	RS
Mediterranean		
shrublands and		
woodlands	Neotropical	
	132. Chilean matorral—Chile	CE
	133. California chaparral and woodlands—United States, Mexico	CE
	Afrotropical	O.F.
	134. Fynbos—South Africa	CE
	Palearctic	
	135. Mediterranean shrublands and woodlands—Portugal, Spain, France, Italy,	
	Monaco, Greece, Yugoslavia, Bosnia and Herzegovina, Croatia, Albania, Turkey, Libya, Lebanon, Israel, Morocco, Algeria, Tunisia, Malta, Cyprus, Macedonia,	
	Bulgaria, Egypt, Syria, Jordan, Slovenia, Gibraltar	CE
	Australasian	CE
	136. Southwest Australian shrublands and woodlands—Australia	CE
Freshwater ecoregions	1301 00 didiri 600 11d0 vinimi diri disimilati mata mata mata mata mata mata mata m	02
Small rivers and streams	Nearctic	
	137. Mississippi piedmont rivers and streams—United States	
	138. Southeastern rivers and streams—United States	
	139. Pacific Northwest coastal rivers and streams—United States	
	140. Gulf of Alaska coastal rivers and streams—United States, Canada	
	Neotropical	
	141. Guayanan highlands freshwater ecosystems—Venezuela, Brazil, Guyana,	
	Colombia	
	142. Greater Antillean streams—Cuba, Jamaica, Haiti, Dominican Republic	
	143. Upper Amazon and Orinoco Rivers and streams—Ecuador, Venezuela,	
	Colombia, Peru, Brazil, Bolivia	
	144. Upper Paraná River—Brazil, Paraguay	
	Afrotropical 145. Madagascar freshwater ecosystems—Madagascar	
	146. Gulf of Guinea rivers and crater lakes—Gabon, Equatorial Guinea, Cameroon,	
	Nigeria, Benin, Togo, Congo, D.R. Congo, Central African Republic, Ghana	
	147. Congo Basin piedmont rivers and streams—D.R. Congo, R. Congo, Angola,	
	Zambia, Central African Republic	
	Indo-Malayan	
	148. Sri Lankan rivers and streams—Sri Lanka	
	149. Sundaland rivers and swamps—Malaysia, Indonesia, Brunei	
	150. Western Ghats rivers and streams—India	
	Palearctic	
	151. Russian Far East rivers and wetlands—Russia, China, Mongolia	
	Australasian	
	152. New Guinea rivers and streams—Papua New Guinea, Indonesia	
	153. New Caledonia rivers and streams—New Caledonia, France	
	154. Eastern Australian rivers and streams—Australia	

Realm and ecoregion	Biogeographic realm	Conservation status ^b
Large rivers	Nearctic	
o .	155. Colorado River—United States, Mexico	
	Neotropical	
	156. Varzea and Igapó freshwater ecosystems—Brazil, Peru, Colombia, Venezuela 157. Brazilian Shield Amazonian rivers and streams—Brazil, Bolivia	
	Afrotropical 158. Congo River—D.R. Congo, R. Congo, Angola	
	Indo-Malayan	
	159. Mekong and Salween Rivers—Cambodia, Vietnam, Laos, Myanmar, Thailand, China 160. Yangtze River and lakes—China	
Lake and closed basin	100. Tangtze river and takes—China	
freshwater ecosystems	Nearctic 161. Great Basin lakes and springs—United States	
	Neotropical	
	162. Chihuahuan rivers and springs—Mexico, United States 163. Mexican Highland lakes—Mexico	
	164. High Andean lakes—Chile, Bolivia, Argentina, Peru Afrotropical	
	165. Rift Valley lakes—D.R. Congo, Uganda, Ethiopia, Tanzania, Kenya, Rwanda,	
	Malawi, Mozambique, Burundi, Zambia Palearctic	
	166. Lake Baikal—Russia	
	167. Yunnan lakes and streams—China	
	168. Lake Biwa—Japan	
	Indo-Malayan 160 Palayan and Mindanao streams and lakes (Lake Lango) Philippines	
	169. Palawan and Mindanao streams and lakes (Lake Lanao)—Philippines 170. Lake Inle—Myanmar	
	171. Central Sulawesi lakes—Indonesia	
	Australasian	
	172. Lakes Kutubu and Sentani—Papua New Guinea, Indonesia	
Marine ecoregions	•	
Large deltas, mangroves,		
and estuaries	Nearctic	
	173. Chesapeake Bay and Delaware Bay—United States	
	Neotropical	
	174. Central American mangroves—Belize, Mexico, Honduras, Nicaragua, El Salvador, Panama, Guatémala, Costa Rica	
	175. Panama Bight mangroves—Ecuador, Panama, Colombia	
	176. Orinoco-Amazon mangroves and coastal swamps—Venezuela, Trinidad and	
	Tobago, Guyana, Surinam, French Guiana, Brazil	
	177. Mexican mangroves—Mexico	
	Afrotropical	
	178. Senegal and Gambia river mangroves and wetlands—Senegal, Gambia, Guinea, Guinea-Bissau	
	179. Guinean-Congolian coast mangroves—Nigeria, Cameroon, Benin, Togo, Ghana,	
	R. Congo, Ivory Coast, Liberia, Equatorial Guinea, Gabon, São Tomé and	
	Príncipe, D.R. Congo, Sierra Leone, Angola	
	180. East African mangroves—Kenya, Tanzania, Somalia, Mozambique	
	Palearctic	
	181. Volga River Delta—Russia, Kazakstan	
	182. Mesopotamian Delta and marshes—Iraq, Iran, Kuwait	
	183. Danube River Delta—Romania, Ukraine, Moldavia 184. Lena River Delta—Russia	
	Indo-Malayan	
	185. Mekong River Delta mangroves—Vietnam, Cambodia	
	186. Sundarbans mangroves—India, Bangladesh	
	187. Sundaland and Eastern Indonesian archipelago mangroves—Indonesia	
	188. Indus River Delta and Rann of Kutch—Pakistan, India	
	Australasian	
	189. New Guinea mangroves—Papua New Guinea, Indonesia	

Realm and ecoregion	Biogeographic realm	Conservation status ^b
Coral reef and associated		
marine ecosystems	Western Atlantic	
	190. Mesoamerican Reef—Belize, Guatemala, Honduras, Mexico	
	191. Southern Caribbean Sea—Panama, Colombia, Venezuela, Trinidad and Tobago,	
	Netherlands Antilles	
	192. Greater Antilles and Bahamian marine ecosystems—Jamaica, Cuba, Haiti,	
	Dominican Republic, Cayman Islands, Bahamas, United States, Turks and Caicos	
	Western Indian Ocean 193. East African marine ecosystems—Kenya, Tanzania, Mozambique, Somalia	
	193. East African marine ecosystems—Kenya, Tanzama, Mozamolque, Somana 194. Western Madagascar marine ecosystems—Madagascar	
	195. Red Sea marine ecosystems—Egypt, Israel, Saudi Arabia, Yemen, Eritrea,	
	Djibouti, Sudan, Jordan	
	196. Agulhas Current marine ecosystems—Mozambique, South Africa	
	Northern Indian Ocean	
	197. Arabian Sea and Persian Gulf—Bahrain, Saudi Arabia, United Arab Emirates,	
	Qatar, Oman, Iran, Pakistan, Yemen	
	198. Maldives, Lakshadweep, and Chagos marine ecosystems—Maldives, India,	
	United Kingdom	
	199. Andaman and Nicobar Islands marine ecosystems—India	
	Eastern Indian Ocean	
	200. Western Australian marine ecosystems—Australia	
	Western Pacific Ocean 201. Isthmus of Kra marine ecosystems—Thailand, Malaysia	
	201. Istillius of Kia marine ecosystems—Thanand, Maiaysia 202. Nansei Shoto marine ecosystems—Japan	
	203. Sulu Sea—Philippines, Malaysia	
	204. Sulawesi Sea—Philippines, Indonesia, Malaysia	
	205. Banda-Flores Seas marine ecosystems—Indonesia	
	206. Northern New Guinea and Coral Sea marine ecosystems—Papua New Guinea,	
	Indonesia, Solomon Islands	
	207. Micronesian marine ecosystems—Palau, Federated States of Micronesia	
	Eastern Pacific Ocean	
	208. Panama Bight marine ecosystems—Panama, Colombia, Ecuador	
	Southern Pacific Ocean	
	209. South Pacific marine ecosystems (Vanuatu, Fiji, New Caledonia, Samoa, Tonga,	
	Tuvalu) 210. Great Barrier Reef—Australia	
	211. Eastern Polynesian Island marine ecosystems (particularly, Hawai'i, Marquesas,	
	Easter Island, Societies and Tuamotus)	
	212. Lord Howe Island and Norfolk Island marine ecosystems—Australia	
Coastal marine	,	
ecosystems	Northern Atlantic Ocean	
	213. Icelandic and Celtic marine ecosystems—Iceland, France, Ireland, United	
	Kingdom, Denmark	
	214. Grand Banks—Canada, United States	
	215. Wadden Sea—Denmark, Germany, Belgium, The Netherlands	
	Western Atlantic Ocean	
	216. Northeast Brazilian coast marine ecosystems—Brazil	
	Eastern Atlantic Ocean 217. Gulf of Guinea marine ecosystems—Equatorial Guinea, Gabon, R. Congo,	
	D.R. Congo, Angola, Cameroon, Nigeria, Benin, Togo, São Tomé and Príncipe	
	218. Western Guinea current marine ecosystems—Senegal, Gambia, Guinea-Bissau,	
	Guinea, Sierra Leone, Cape Verde, Liberia, Mauritania	
	Southern Atlantic Ocean	
	219. Benguela Current—Namibia, South Africa, Angola	
	220. Southwest Atlantic coast marine ecosystems—Argentina, Uruguay, Brazil	
	Mediterranean Sea	
	221. Mediterranean Sea	
	Western Pacific Ocean	
	222. Yellow Sea and East China Sea—China, North Korea, South Korea, Japan	
	Eastern Pacific Ocean	
	223. Californian Current—United States, Canada, Mexico	

Realm and ecoregion	Biogeographic realm	Conservation status ^b
	224. Sea of Cortez—Mexico	
	225. Peru Current—Peru, Chile	
	226. Galápagos Islands marine ecosystems—Ecuador	
	227. Magellanic Marine ecosystems—Chile, Argentina	
	Southern Pacific Ocean	
	228. South temperate Australian marine ecosystems—Australia	
Polar and subpolar	,	
marine ecosystems	Antarctic Seas	
·	229. Antarctic Peninsula and Weddell Sea	
	230. New Zealand marine ecosystems—New Zealand	
	Arctic Ocean and Seas	
	231. Bering and Beaufort Seas—Russia, United States, Canada	
	232. Sea of Okhotsk and Northern Sea of Japan—Russia, Japan	
	233. Svalbard/Franz Joseph Land marine ecosystems—Russia, Norway	

^aWe anticipate that there will be some minor modification of the Global 200 list in the future as new information becomes available and ongoing analyses are finalized.

Science Program and others (Victor 1955; Freitag 1971; Zohary 1973; Miyawaki 1975; Yim 1977; Chinese Vegetation Map Compilation Committee 1979; New Zealand Department of Conservation 1987; Noirfalise 1987; Changchun Institute of Geography and Chinese Academy of Sciences 1990; Kurnaev 1990; Bohn 1994; Krever et al. 1994; WWF & World Conservation Union 1994, 1995, 1997; Dinerstein et al. 1995; Ecological Stratification Working Group 1995; Gallant et al. 1995; Hilbig 1995; Omernik 1995; Thackway & Cresswell 1995; Mongolian Ministry for Nature and the Environment et al. 1996; Ricketts et al. in press; Bohn & Katenina 1996; S. Gon, personal communication; Wikramanayake et al., unpublished data). These assessments were conducted in collaboration with hundreds of regional experts and included extensive literature reviews.

Freshwater ecoregions were based on several regional analyses and consultations with regional experts (Hocutt & Wiley 1986; Frest & Johannes 1993; World Conservation Monitoring Centre 1992; Maxwell et al. 1995; Kottelat & Whitten 1996; Abell et al. 1997; Olson et al. 1997). Marine ecoregions delineated by the Global 200 are nested within a large marine

ecosystem framework, derived from several global and regional analyses (e.g., Hayden et al. 1984; World Conservation Union and World Conservation Monitoring Centre 1988; Sherman et al. 1990; Croom et al. 1992; Ray & Hayden 1993; Kelleher et al. 1995; Groombridge & Jenkins 1996; Sullivan & Bustamante 1996; Ormond et al. 1997).

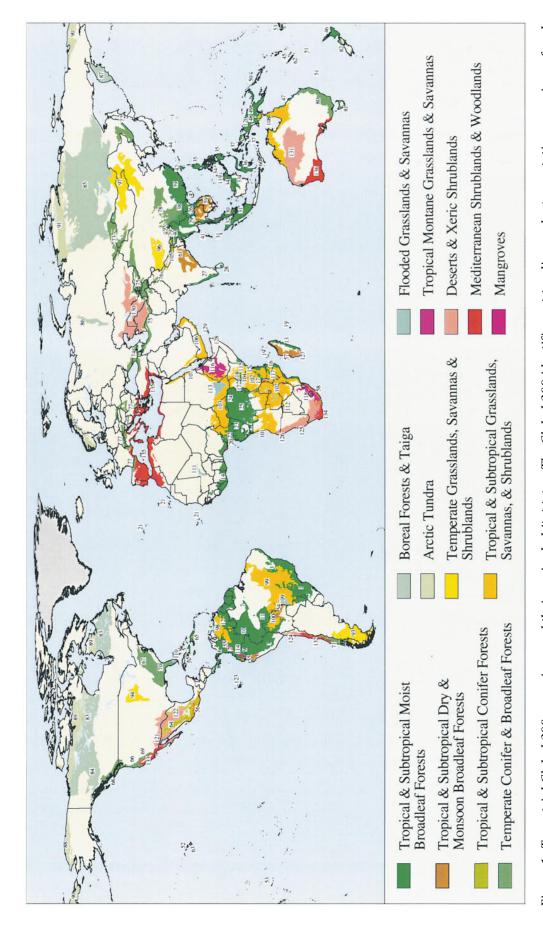
Within each MHT and biogeographic realm, ecoregions are classified by their biological distinctiveness at one of four levels: globally outstanding, regionally outstanding (e.g., Nearctic), bioregionally outstanding (e.g., Caribbean), or locally important. Biological distinctiveness, as a discriminator, evaluates the relative importance and rarity of different units of biodiversity. It can be used to estimate the urgency of action based on the opportunities for conserving distinct units around the world. On a global scale, and within each biogeographic realm, we chose the set of ecoregions with the greatest biological distinctiveness based on the following parameters: species richness, endemism, taxonomic uniqueness (e.g., unique genera or families, relict taxa or communities, primitive lineages), unusual ecological or evolutionary phenomena (e.g., intact large vertebrate faunas or migrations, extraordinary adaptive radiations), and global rarity of MHT (Olson & Dinerstein 1997). We compared only the biodiversity value of ecoregions sharing the same MHT because the relative magnitude of parameters such as richness and endemism varies widely among MHTs. For ecoregions of equal biological distinctiveness in the same MHT and biogeographic realm, we selected the ecoregions that had more intact habitats and biotas based on assessments of their conservation status (Dinerstein et al. 1995; Ricketts et al. in press; E. Wikramanayake, unpublished data).

We identified 233 ecoregions whose biodiversity and representation values are outstanding on a global scale (Table 1, Figs. 1 & 2). They represent the terrestrial, freshwater, and marine realms, and the 19 MHTs nested within these realms. Among the 3 realms, 136 (58%) are terrestrial, 36 (16%) are freshwater ecoregions, and 61 (26%) are marine. Terrestrial ecoregions outnumber those of the other realms largely because there is more localized endemism in terrestrial than in marine biotas. Gaps in biogeographic information for freshwater and marine biodiversity also account for some of the variation.

The results of the analysis target a number of well-known biodiversity

bNumbers of ecosystems correspond to Figs. 1 and 2.

^cCE, critical or endangered; V, vulnerable; RS, relatively stable or intact.



major babitat type in each biogeographic realm where it occurs. The estimated original extent of ecoregions is shown, not the habitat that remains. Be-Figure 1. Terrestrial Global 200 ecoregions and their major habitat types. The Global 200 identifies outstanding and representative ecoregions of each cause many ecoregions bave already been beavily altered, conservation activities are only feasible in much smaller areas than the original extent.

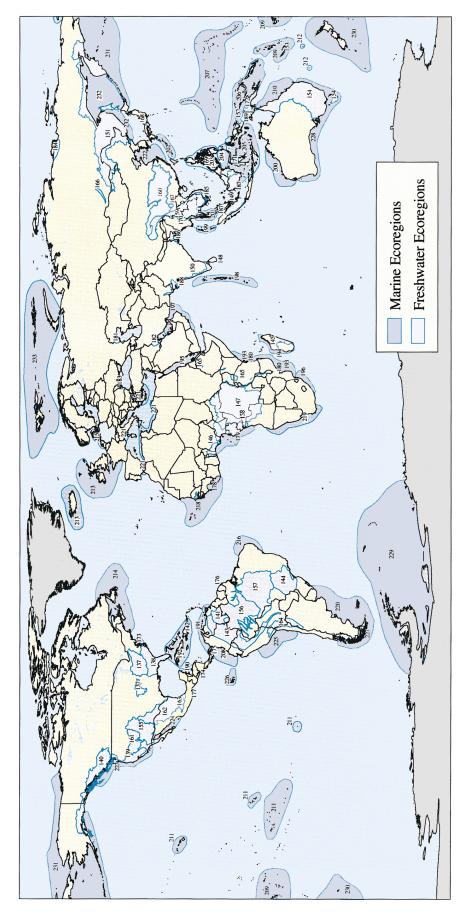


Figure 2. Freshwater and marine Global 200 ecoregions. Distinctive and representative freshwater and marine ecoregions were identified for each major babitat type in each terrestrial biogeographic realm or ocean basin. Freshwater and marine major habitat types are not shown.

priorities. For example, the Western Arc forests of the Amazon Basin, the Atlantic Forest ecoregion of Brazil, the Chocó-Daríen ecoregion of northwestern South America, Peninsular Malaysia, and the northern Borneo forest ecoregions are among the richest tropical moist forests on Earth. Similarly, the forests of Madagascar and New Caledonia were also recognized as highly distinctive at global scales, partly because of the number of endemic higher taxa (e.g., families and genera). Other results highlight less well-known areas. For example, Mexico harbors both the world's richest and most complex subtropical conifer forests and the most diverse dry forests in the world; the moist forests of Sulawesi display some of the highest levels of mammal endemism in the Indo-Pacific region, and the Congolian Coastal forests are Africa's richest moist forests and exhibit pronounced narrow endemism. Results for marine and freshwater ecoregions also confirmed documented patterns and highlighted many less recognized priorities, such as the extraordinary temperate freshwater biotas of the streams of southeastern North America and the Yangtze River headwaters in central China, and the unusually high levels of endemism of temperate marine invertebrates in the South Australian coastal ecoregion.

Ecoregions vary greatly not only in their biological distinctiveness but also in their conservation status. Conservation status represents an estimate of the current and future ability of an ecoregion to maintain viable species populations, to sustain ecological processes, and to be responsive to short- and long-term environmental changes. We conducted conservation status assessments for the terrestrial Global 200 ecoregions based on landscape-level features, such as total habitat loss and the degree of fragmentation, and estimates of future threat and degree of protection. We drew heavily from regional conservation assessments to estimate conservation status (Krever

et al. 1994; BSP et al. 1995; Dinerstein et al. 1995; Harcourt et al. 1996; Mac-Kinnon & Bunting 1996; Bryant et al. 1997; Dinerstein et al. 1997; Dobson et al. 1997; Ricketts et al. in press; E. Wikramanayake, unpublished data). Terrestrial ecoregions were classified into one of three broad conservation status categories: critical/endangered, vulnerable, or relatively stable/relatively intact.

Among terrestrial Global 200 ecoregions, 47% are considered critical or endangered, 29% vulnerable, and 24% relatively stable or intact (Table 1). Terrestrial ecoregion boundaries approximate original extent, showing extensive habitat loss, fragmentation, and degradation within. In ecoregions that have been dramatically altered, characteristic species and communities survive in only a few remaining small blocks of habitat (Collar & Andrew 1988; Dinerstein et al. 1995). Among the terrestrial MHTs, ecoregions falling within the tropical dry forests, temperate grasslands, Mediterranean shrublands, and temperate broadleaf forests are the most threatened. Island ecoregions are projected to experience a wave of extinctions over the next two decades because of the fragility of island ecosystems, the sensitivity and endemicity of island species, and the severe threats native island biotas face worldwide from introduced species and habitat loss (Raven 1988; Wilson 1988, 1992; World Conservation Monitoring Centre 1992; Sujatnika et al. 1995; Brooks et al. 1997; Reaka-Kudla 1997; Stattersfield et al. 1998).

We have not completed an assessment of the status of freshwater and marine ecoregions, but preliminary analyses show that freshwater ecosystems, particularly seasonally flooded forests, cataracts, and freshwater communities in xeric areas, are endangered worldwide (Goulding et al. 1996; Abell et al. 1997; Olson et al. 1997). Moreover, most temperate freshwater biotas are threatened by invasion of exotics, pollution, dams, and habitat degradation. In marine

MHTs, upwelling areas are heavily overfished, enclosed seas are degraded, and coral reefs and mangroves are severely affected by habitat destruction, degradation, and overfishing around the world (Sherman et al. 1990; Suchanek 1994; Bryant et al. 1995; Kelleher et al. 1995; Olson et al. 1996).

The Global 200 is an effective tool for (1) targeting distinctive biogeographic units of biodiversity and (2) promoting ecosystem-level representation at global scales. The Global 200 broadens the goals of conservation from a primary focus on preserving species diversity to an encompassing view of habitat diversity, ecological processes, evolutionary phenomena, and adaptations of species to different environmental conditions around the world. In some cases, it also distinguishes representative ecoregions that are more intact than others, highlighting the best opportunities for long-term conservation.

Like any effort to set priorities, the Global 200 cannot address all aspects of biodiversity conservation. The Global 200 does not explicitly target hemispheric-scale ecological phenomena such as migrations of marine mammals, sea turtles, birds, or fish; intratropical migrations of bats, birds, and insects; widespread and dynamic pelagic ecosystems; hydrothermal vent communities; abyssal ecosystems; cave and groundwater ecosystems; or global ecosystem dynamics such as carbon sequestration. More-detailed, fine-scale analyses are essential to identify important targets within ecoregions.

One tactical concern about the Global 200 is that it is too ambitious; that is, by focusing on 233 ecoregions rather than on a handful of conservation units we run the risk of placing less emphasis on the most diverse and distinct ecoregions. We argue that the broad geographic reach of the Global 200 makes almost every nation on Earth a stakeholder in a global conservation strategy. From the global scale to regional and national conservation strate-

gies, the Global 200 lends weight to shared priorities and provides a global perspective for lobbying efforts by local conservation groups. The Global 200 also can help major development agencies to better recognize and mitigate the effects of projects that result in land-use change or to forego development activities in particularly sensitive ecoregions. For these reasons we see the Global 200 as a map guiding conservation investments so that a comprehensive plan eventually can be achieved by the global conservation community and the nations of the world.

The widespread destruction of the Earth's biodiversity occurring today must be matched by a response an order of magnitude greater than currently exists. The Global 200 provides a necessarily ambitious template for a global conservation strategy.

Literature Cited

- Abell, R., D. M. Olson, E. Dinerstein, P. Hedao, P. Hurley, C. Loucks, and S. Walters, editors. 1997. A conservation assessment of freshwater biodiversity of North America. Draft report. World Wildlife Fund and the U.S. Environmental Protection Agency, Washington, D.C.
- Bedward, M., R. L. Pressey, and D. A. Keith. 1992. A new approach for selecting fully representative reserve networks: addressing efficiency, reserve design, and land suitability with an iterative analysis. Biological Conservation 62:115-125.
- Bohn, U. 1994. International project for the construction of a map of the natural vegetation of Europe at a scale of 1:2,500,000: it's concept, problems of harmonization and application for nature protection. Colloques Phytosociologiques 23:23-45.
- Bohn, U., and G. D. Katenina. 1996. General map of natural vegetation of Europe, Map (1:10,000,000). Federal Agency of Nature Conservation, Bonn.
- Brooks, T. M., S. L. Pimm, and N. J. Collar. 1997. Deforestation predicts the number of threatened birds in insular Southeast Asia. Conservation Biology 11:383–394.
- Bryant, D., E. Rodenberg, T. Cox, and D. Nielsen. 1995. Coastlines at risk: an index of potential development-related threats to coastal ecosystems. Indicator brief. World Resources Institute, Washington, D.C.
- Bryant, D., D. Nielsen, and L. Tangley. 1997. The last frontier forests: ecosystems and economies on the edge. World Resources Institute, Washington, D.C.

- Biodiversity Support Program, Conservation International, The Nature Conservancy, World Resources Institute, and World Wildlife Fund. 1995. A regional analysis of geographic priorities for biodiversity conservation in LAC. A report. USAID, Biodiversity Support Program, Washington, D.C.
- Caicco, S. L., J. M. Scott, B. Butterfield, and B. Csuti. 1995. A gap analysis of the management status of the vegetation of Idaho (USA). Conservation Biology 9:498–511.
- Caldecott, J. O., M. D. Jenkins, T. Johnson, and B. Groombridge. 1996. Priorities for conserving global species richness and endemism. Biodiversity and Conservation 5: 699–727
- Changchun Institute of Geography and Chinese Academy of Sciences. 1990. The conservation atlas of China. Science Press, Beijing.
- Chinese Vegetation Map Compilation Committee. 1979. Vegetation map of China. Map (1:10,000,000). Science Press, Beijing.
- Collar, N. J., and P. Andrew. 1988. Birds to watch: the ICBP world checklist of threatened birds. ICBP technical publications No. 8. International Council for Bird Preservation, Cambridge, United Kingdom.
- Cox, J., R. Kautz, M. MacLaughlin, and T. Gilbert. 1994. Closing the gaps in Florida's wildlife habitat conservation system: recommendations to meet minimum conservation goals for declining wildlife species and rare plant and animal communities. Florida Game and Fresh Water Fish Commission, Tallahassee, Florida.
- Croom, M. M., R. J. Wolotira, and W. Henwood. 1992. Proposed biogeographic subdivisions of the North East Pacific marine realm. National Ocean Service, Washington, D.C., and Environment Canada, North Vancouver, British Columbia.
- Dinerstein, E., D. M. Olson, D. J. Graham, A. L. Webster, S. A. Primm, M. P. Bookbinder, and G. Ledec. 1995. A conservation assessment of the terrestrial ecoregions of Latin America and the Caribbean. The World Bank, Washington, D.C.
- Dinerstein, E., E. Wikramanayake, J. Robinson, U. Karanth, A. Rabinowitz, D. Olson, T. Mathew, P. Hedao, M. Connor, G. Hemley, and D. Bolze. 1997. A framework for identifying high priority areas and actions for the conservation of tigers in the wild. World Wildlife Fund and Wildlife Conservation Society, Washington, D.C.
- Dobson, A. P., J. P. Rodriquez, W. M. Roberts, and D. S. Wilcove. 1997. Geographic distribution of endangered species in the United States. Science 275:550-553.
- Ecological Stratification Working Group. 1995. A national ecological framework for Canada. Map. Agriculture and Agri-food Canada, Centre for Land and Biological Resources Research, and Environment Canada, Ottawa/Hull, Canada.
- Fearnside, P. M., and J. Ferraz. 1995. A conserva-

- tion gap analysis of Brazil's Amazonian vegetation. Conservation Biology 9:1134-1147.
- Freitag, H. 1971. Studies in the natural vegetation of Afghanistan. Pages 89-106 in P. H. Davis, P. C. Harper, and I. C. Hedge, editors. Plant life of South-West Asia. The Botanical Society of Endinburgh, Edinburgh, United Kingdom.
- Frest, T. J., and E. J. Johannes. 1993. Mollusk species of special concern within the range of the Northern Spotted Owl. Final report prepared for the Forest Ecosystem Management Working Group, USDA Forest Service. Deixis Consultants, Seattle, Washington.
- Gallant, A. L., E. F. Binnian, J. M. Omernik, and M. B. Shasby. 1995. Ecoregions of Alaska. U.S. Geological Survey professional paper 1567. Map. U.S. Government Printing Office, Washington, D.C.
- Goulding, M., N. J. H. Smith, and D. J. Mahar. 1996. Floods of fortune: ecology and economy along the Amazon. Columbia University Press, New York.
- Groombridge, B., and M. D. Jenkins, editors. 1996. The diversity of the seas: a regional approach. Biodiversity series no. 4. World Conservation Monitoring Centre, World Conservation Press, Cambridge, United Kingdom.
- Harcourt, C. S., J. Sayer, and C. Billington, editors. 1996. The conservation atlas of tropical forests: the Americas. World Conservation Union and World Conservation Monitoring Centre, Cambridge, United Kingdom.
- Hayden, B. P., G. C. Ray, and R. Dolan. 1984. Classification of coastal and marine environments. Environmental Conservation 11:199-207.
- Hilbig, W. 1995. The vegetation of Mongolia. SPB Academic Publishing, Amsterdam.
- Hocutt, C. H., and E. O. Wiley, editors. 1986.
 The zoogeography of North American freshwater fishes. Wiley and Sons, New York.
- Hummel, M., editor. 1989. Endangered spaces: the future for Canada's wilderness. Key Porter Books, Ontario, Canada.
- Johnson, N. 1995. Biodiversity in the balance: approaches to setting geographic conservation priorities. Biodiversity Support Program, Washington, D.C.
- Johnson, T. H., and A. J. Stattersfield. 1990. A global review of island endemic birds. Ibis 132:167-180.
- Kelleher, G., C. Bleakley, and S. Wells. 1995. A global representative system of marine protected areas. 4 volumes. Great Barrier Marine Park Authority, The World Bank, World Conservation Union, Washington, D.C.
- Kottelat, M., and T. Whitten. 1996. Asia-wide assessment of freshwater biodiversity. Technical paper no. 281. The World Bank, Washington, D.C.
- Krever, V., E. Dinerstein, D. M. Olson, and L. Williams. 1994. Conserving Russia's biological diversity: an analytical framework

- and initial investment portfolio. World Wildlife Fund, Washington, D.C.
- Kurnaev, S. F. 1990. Forest regionalization of the USSR. Map (1:16,000,000). Sheet 15 of Forests of the USSR. Main Division for Geodesy and Cartography of the Soviet Ministers. Moscow.
- MacKinnon, J. 1994. A method for evaluating and classifying habitat importance for biodiversity conservation. Paper prepared for meeting on identification of habitat criteria. World Conservation Monitoring Centre, Cambridge, United Kingdom.
- MacKinnon, J., and G. Bunting. 1996. Remaining natural habitats of the Indo-Malayan Realm: digital database. World Conservation Monitoring Centre, Cambridge, United Kingdom.
- Maxwell, J. R., C. J. Edwards, M. E. Jensen, S. J. Paustian, H. Parrot, and D. M. Hill. 1995. A hierarchical framework of aquatic ecological units in North America (Nearctic Zone). General technical report NC-176. U.S. Forest Service, St. Paul, Minnesota.
- Miyawaki, A. 1975. Outline of Japanese vegetation. Pages 19-27 in K. Numata, K. Yoshida, and M. Kato, editors. Studies in conservation of natural terrestrial ecosystems of Japan. Japanese Committee for the International Biological Program synthesis. Volume 8. University of Tokyo Press, Tokyo.
- Mongolian Ministry for Nature and the Environment, United Nations Development Programme-Global Environment Facility, and World Wildlife Fund. 1996. Mongolia's wild heritage. Avery Press, Boulder, Colorado.
- New Zealand Department of Conservation. 1987. Ecolgical regions and districts of New Zealand. Map (1:500,000). Department of Conservation, Wellington, New Zealand.
- Nicoll, M. E., and O. Langrand. 1989. Madagascar: Revue de la conservation et des aires protégées. World Wildlife Fund, International, Gland, Switzerland.
- Noirfalise, A. 1987. Map of the natural vegetation of the member countries of the European Community and the Council of Europe. Map (1:3,000,000). 2nd edition. Council of Europe, Strasbourg, France.
- Noss, R. F. 1996. Ecosystems as conservation targets. TREE 11:351.
- Noss, R. F., and A. Y. Cooperrider. 1994. Saving nature's legacy: protecting and restoring biodiversity. Defenders of Wildlife and Island Press, Washington, D.C.
- Olson, D. M., and E. Dinerstein. 1997. The Global 200: a representation approach to conserving the Earth's distinctive ecoregions. Draft report. World Wildlife Fund, Washington, D.C.
- Olson, D. M., E. Dinerstein, G. Cintron, and P. Iolster. 1996. A conservation assessment of mangroves of Latin America and the Caribbean. World Wildlife Fund U.S., Washington, D.C.

- Olson, D. M., B. Chernoff, G. Burgess, I. Davidson, P. Canevari, E. Dinerstein, G. Castro, V. Morisset, R. Abell, and E. Toledo. 1997. Freshwater biodiversity of Latin America and the Caribbean: a conservation assessment. Draft report. World Wildlife Fund-U.S., Wetlands International, Biodiversity Support Program, and United States Agency for International Development, Washington, D.C.
- Omernik, J. M. 1995. Level III ecoregions of the continental U.S. National Health and Environment Effects Research Laboratory, U.S. Environmental Protection Agency, Washington, D.C.
- Orians, G. H. 1993. Endangered at what level? Ecological Applications **3:**206–208.
- Ormond, R. F. G., J. D. Gage, and M. V. Angel, editors. 1997. Marine biodiversity: patterns and processes. Cambridge University Press, Cambridge, United Kingdom.
- Pressey, R. L., and V. S. Logan. 1994. Level of geographical subdivision and its effects on assessments of reserve coverage: a review of regional studies. Conservation Biology 8:1037-1046.
- Pressey, R. L., I. R. Johnson, and D. P. Wilson. 1994. Shades of irreplaceability: towards a measure of the contribution of sites to a reservation goal. Biodiversity and Conservation 3:242–262.
- Raven, P. H. 1988. Our diminishing tropical forests. Pages 199–122 in E. O. Wilson, editor. Biodiversity. National Academy, Washington, D.C.
- Ray, G. C., and B. P. Hayden. 1993. Marine biogeographic provinces of the Bering, Chukchi, and Beaufort Seas. Pages 175–184 in K. Sherman, L. M. Alexander, and B. D. Gold, editors. Large marine ecosystems: patterns, processes and yields. American Association for the Advancement of Science, Washington, D.C.
- Reaka-Kudla, M. L., D. E. Wilson, and E. O. Wilson, editors. 1997. Biodiversity II: understanding and protecting our biological resources. Joseph Henry Press, Washington, D.C.
- Ricketts, T., E. Dinerstein, D. Olson, C. Loucks, P. Hedao, K. Carney, S. Walters, and P. Hurley. In press. A conservation assessment of terrestrial ecoregions of North America. Island Press, Washington, D.C.
- Sherman, K., L. M. Alexander, and B. D. Gold, editors. 1990. Large marine ecosystems: patterns, processes and yields. American Association for the Advancement of Science, Washington, D.C.
- Stattersfield, A. J., M. J. Crosby, A. J. Long, and D. C. Wege. 1998. Endemic bird areas of the world: priorities for biodiversity conservation. Birdlife International, Cambridge, United Kingdom.
- Suchanek, T. H. 1994. Temperate coastal marine communities: biodiversity and threats. American Zoologist 34:100-114.
- Sujatnika, J. P., T. R. Soehartono, M. J. Crosby, and A. Mardiastuti. 1995. Conserving Indo-

- nesian biodiversity: the endemic bird area approach. BirdLife International Indonesia Programme, Bogor, Indonesia.
- Sullivan, K., and G. Bustamante. 1996. A conservation assessment of the freshwater and marine ecoregions of Latin America and the Caribbean. Draft report. Biodiversity Support Program, The Nature Conservancy, and World Wildlife Fund, Washington, D.C.
- Thackway, R., and I. D. Cresswell, editors. 1995. An interim biogeographic regionalisation for Australia: a framework for setting priorities in the National Reserves System Cooperative Program. Version 4.0. Australian Nature Conservation Agency,
- The Nature Conservancy. 1997. Designing a geography of hope: guidelines for ecoregion-based conservation in The Nature Conservancy. The Nature Conservancy, Arlington, Virginia.
- United Nations Environmental Programme. 1995. Global biodiversity assessment. Cambridge, University Press, Cambridge, United Kingdom.
- Victor, P. E. 1955. Ice-geography of Greenland. Map (1:5,000,000). Geodaeyisk Institut, Copenhagen.
- World Conservation Monitoring Centre. 1992. Global biodiversity: status of the Earth's living resources. Chapman & Hall, London.
- World Conservation Union and World Conservation Monitoring Centre. 1988. Coral reefs of the world. 3 volumes. World Conservation Monitoring Centre, Cambridge, United Kingdom.
- Wilson, E. O., editor. 1988. Biodiversity. National Academy Press, Washington, D.C.
- Wilson, E. O. 1992. The diversity of life. Harvard University Press, Cambridge, Massachusetts.
- World Wildlife Fund and World Conservation Union. 1994. Centres of plant diversity: a guide and strategy for their conservation. Volume 1. Europe, Africa, South West Asia and the Middle East. World Conservation Union Publications Unit, Cambridge, United Kingdom.
- World Wildlife Fund and World Conservation Union. 1995. Centres of plant diversity: a guide and strategy for their conservation. Volume 2. Asia, Australasia and the Pacific. World Conservation Union Publications Unit, Cambridge, United Kingdom.
- World Wildlife Fund and World Conservation Union. 1997. Centres of plant diversity: a guide and strategy for their conservation. Volume 3. The Americas. World Conservation Union Publications Unit, Cambridge, United Kingdom.
- Yim, Y.-J. 1977. Distribution of forest vegetation and climate in the Korean Peninsula. IV. Zonal distribution of forest vegetation in relation to thermal climate. Japanese Journal of Ecology 27:269-278.
- Zohary, M. 1973. Geobotanical foundations of the Middle East. Volumes 1 & 2. Gustav Fischer Verlag, Stuttgart, Germany.

Note

This *Issues in International Conservation* piece summarizes a much more comprehensive document, "The Global 200: A Representation Approach to Conserving the Earth's Distinctive Ecoregions" by D. M. Olson

and E. Dinerstein. This document is available on the Internet at http://www.world wildlife fund.org.

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