

Transfrontier Ecosystems and Internationally Adjoining Protected Areas

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1. The “Nature” of Boundaries

Nature rarely notices political boundaries. Most of the arbitrarily-drawn political boundaries dividing the Earth into countries were delineated as a result of wars or political compromises, often by geographers never even having set eyes on the land. As a result, these political divisions frequently have severed functioning ecosystems. Although neither animals nor plants recognize these arbitrary boundaries, the fact that humans do often threatens the continued survival of the other species and the ecosystems. As conservation biologists have begun to emphasize the importance of larger-scale ecosystem-based management and regional approaches to biodiversity conservation, political boundaries dividing ecosystems have become even more problematic.

For the past 120 years, protected natural areas have been the traditional means of nature conservation. Today these areas encompass approximately 13.2 million square kilometers around the world (Green and Paine 1998). For various reasons, many of these protected areas exist on international boundaries, and many of these suggest the existence of transfrontier ecosystems. These are especially likely where protected areas in different countries adjoin across international boundaries. This paper contains an updated *Global List of Adjoining Protected Areas* (as of early 1999), referred to earlier as “transfrontier protected areas complexes”¹, (Zbicz and Green 1997a) (Zbicz and Green 1997b). Although continually evolving, this list provides a glimpse of the extent of the problem of internationally divided ecosystems and the need for improved transfrontier cooperation

2. A Global List of Adjoining Protected Areas

Although never truly “complete”, the process of compiling a comprehensive list of adjoining protected areas involved over two years of effort on the part of the author and the assistance of countless protected area experts and professionals. The effort began with a preliminary list of seventy “Border Parks” identified by Jeremy Harrison of WCMC and Jim Thorsell of IUCN for the Border Parks Workshop held at the first Global Conference on Tourism in Vancouver in 1988. (Thorsell 1990, 13). This early list was expanded by incorporating other regional lists from various sources and from the many individuals at Duke University working with protected areas around the world. Input was also solicited from protected area professionals attending the IUCN World Conservation Congress in Montreal in October 1996. In the spring of 1997, the author spent several weeks at the World Conservation Monitoring Centre (WCMC) in Cambridge, UK comparing this compiled list with the Centre’s Protected Areas Database and its Geographic Information System Biodiversity Map Library. The staff of the Protected Areas Unit also offered assistance and regional expertise. The list was then taken to the World Conservation Union (IUCN) headquarters in Switzerland. At a meeting of the Steering Committee of IUCN’s World Commission on Protected Areas, the Vice Chairs from each region and the Protected Areas team at IUCN further amended and added to it. International correspondence by fax, mail and electronic mail throughout the process enabled ground-truthing by hundreds of protected area managers and professionals around the world. In

¹ This term was used in the draft version of the list and an accompanying paper by the author and Michael J. B. Green that was presented at the “International Conference on Transboundary Protected Areas as a Vehicle for International Cooperation” in Somerset West, South Africa 16-18 September 1997.

1998, the list was updated with information received from responses to a global survey mailed, with the assistance of IUCN, to the managers of all the adjoining protected areas (Zbicz 1999).

3. Who's In and Who's Out

Choices were necessary to decide which protected areas should be included on the list. The 1988 list had included parks on international borders, not all necessarily having counterpart protected areas across the border. In addition to border parks, many other names have been used for these areas, including peace parks, transfrontier nature reserves, transborder or transboundary protected areas, etc. Some of these terms imply a level of transboundary cooperation which may or may not exist. In many cases, all that is "transboundary" about the protected areas is a shared ecosystem, certainly not cooperation or management. Since one purpose of this list was to identify internationally divided ecosystems, the decision was made to include only those places around the world where protected areas physically meet or nearly meet across international boundaries. Only international boundaries have been included - not internal boundaries within countries. The name *adjoining protected areas* was selected as the most appropriate descriptor.

A second question involved whether or not proposed sites should be included, as had been done in the 1988 list. The decision was made to include only sites where existing protected areas actually adjoin across international boundaries. Sites must qualify as protected areas under the 1994 IUCN definition of "an area of land and/or sea especially dedicated to the protection and maintenance of biological diversity, and of natural and associated cultural resources, and managed through legal or other effective means" (IUCN 1994). In order to meet this criterion, a protected area must be so designated by its host government and must be of a size of at least 1,000 hectares. Since WCMC maintains the official government reports for compiling the UN List of Protected Areas, the WCMC database was used as the authority for official protected area status.

Using these criteria meant that many complexes of proposed or smaller sites were omitted. In many situations a protected area is located on an international boundary, but no protected area exists in the adjoining country. In many of these cases, protection has been proposed on the other side or even be in the process of establishment. Therefore, a second list was created, containing sites where one side of the border has only a proposed protected area or one without an IUCN category (I-VI). This second list of sites which could not be verified in the WCMC database is not included here, but is currently being updated.

4. A Global List of Adjoining Protected Areas

Adhering to the criteria described above, 136 clusters of adjoining protected areas, or transfrontier protected area complexes were identified. These clusters include 488 different protected areas, 415 with IUCN designations, that adjoin others both within countries and across international frontiers. Together these clusters or complexes cover at least 10% of the total area of all protected areas in the world (Zbicz and Green 1997a). Usually containing more than two individual protected areas, up to as many as 13, they often provide contiguous habitat for species. The 136 complexes involve 98 different countries, or almost half of the world's 224 countries and dependent territories (Ibid.). Twenty-seven of the complexes involve three different countries. Adjoining protected areas straddle 112 of the world's 309 different international boundaries maintained in the database of the International Boundaries Research Unit in Durham, UK (Pratt 1997). An additional 69 complexes are included on the list of potential adjoining protected areas. Together these existing and proposed complexes offer 205 potential opportunities for transfrontier biodiversity conservation.

Table 1: Internationally Adjoining Protected Areas - 1998

Regions	Adjoining PA Complexes	Protected Areas	Proposed Complexes	Complexes with 3 Countries
N. America	8	42	4	0
C. & S. America	24	93	15	6
Europe	45	154	26	6
Africa	34	123	12	9
Asia	25	76	12	3
TOTAL	136	488	69	27

5. Adjoining Protected Areas and Transfrontier Ecosystems

Adjoining protected areas are particularly important to biodiversity conservation because of the fact that they often involve transboundary ecosystems. To examine this, a question was included in the international survey mentioned above which asked if the adjoining protected areas shared an ecosystem. Surveys were sent to 132 of the 136 complexes that met the requirements of the study, with 5 being returned undelivered. Responses were received from 120 of the complexes. All 120 responded that at least two of the protected areas in the complex share ecosystems. This suggests that adjoining protected areas are indeed usually an indication of transfrontier ecosystems. Obviously not all internationally divided ecosystems appear on this list, as many do not have protected areas established on both sides of the border. However, it does represent a list of areas important not only because of their high political profile on international boundaries, but also because they contain some of the greatest remaining areas of biodiversity in the world. As mentioned earlier, however, nature does not recognize political boundaries, and in many cases, species continue to migrate across those borders as they always have, oblivious to customs regulations. Pursuing transfrontier cooperation and the creation of international peace parks in these 136 complexes of internationally adjoining protected areas would certainly be an important contribution to biodiversity conservation. *A Global List of Adjoining Protected Areas* is a first step.

References

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A Global List of Adjoining Protected Areas

Note: Complexes may include proposed protected areas and areas designated under national legislation that have not been assigned an IUCN Category (i.e. unassigned), provided that there is at least one established protected area adjacent to another either side of an international boundary.

Countries	WCMC Code	Designated Areas	IUCN Category
North America			
Canada/ US	612 18707 7406 13038 1005 35387 22490 1010 22485 35382	Kluane National Park & Preserve Kluane Wildlife Sanctuary Tatshenshini-Alsek Wilderness Park/ Tongass National Forest Wrangell-St Elias National Park Wrangell-St Elias Wilderness Area Wrangell-St Elias National Preserve Glacier Bay National Park Glacier Bay National Preserve Glacier Bay Wilderness Area	II IV II IV II Ib V II V Ib
Canada/ US	626 21193 973 100967	Waterton Lakes National Park Akamina Kishinena Provincial Park Flathead Provincial Forest Reserve/ Glacier National Park Flathead National Forest	II II II VI
Canada/ US	100672 100673 101594 2904	Ivvavik National Park Vuntut National Park Old Crow Flats Special Management Area/ Arctic National Wildlife Refuge	II II Ib IV
Canada/ US	66395 21322 100955 988	Quetico Wilderness Provincial Park Neguaguon Lake Indigenous Reserve/ Boundary Waters Canoe Area Wilderness Area Superior National Forest Voyageurs National Park	II Ib VI II
Canada/ US	4185 18646 101678 65159 979 21389	Cathedral Provincial Park E. C. Manning Provincial Park Skagit Valley Recreation Area Cultus Lake Provincial Park Neguaguon Lake Indigenous Reserve/ N. Cascades National Park Pasayten Wilderness National Forest	II II II II II Ib
Mexico/ US	101431 101457 976	Sierra de Maderas del Carmen National Park Cañón de Santa Elena National Forest/ Big Bend National Park	VI VI II
Mexico/ US	34862 100881	Sierra de los Ajos National Park/ Coronado National Forest	
Mexico/ US	32971 18091 101409 13771 35472 35977 1020	El Pinacate y Gran Desierto de Altar National Biological Reserve Sierra del Pinacate Refugio Alto Golfo National Biological Reserve/ Cabeza Prieta National Wildlife Refuge Cabeza Prieta Wilderness Area Organ Pipe Cactus Wilderness Area Organ Pipe Cactus National Monument Tohono O' odham Reservation	VI IV VI IV Ib Ib III
Latin America			
Belize/ Guatemala/ Mexico	20224 61957 26621 30604 102817 19570	Rio Bravo Conservation Area Private Reserve Aguas Turbia National Park/ Maya Biosphere Reserve El Mirador -Río Azul National Park Naachtún - Dos Lagunas Protected Biotope/ Calakmul Biological Reserve	IV II n/a Ia II VI

Countries	WCMC Code	Designated Areas	IUCN Category
Belize/	20230 3314 116297 28850	Chiquibul National Park Columbia River Forest Reserve Vaca Forest Reserve Maya Mountains Forest Reserve/	II VI VI VI
Guatemala		Complejo III - Reserva de Biosfera Montañas Mayas Chiquibul	
Costa Rica/	167 30599 12493	Tortuguero National Park Tortuguero Protected Zone Barro del Colorado National Wildlife Reserve/	II VI IV
Nicaragua	30628 20220	Río Indio-Maíz Biological Reserve San Juan Delta	Ia Pr
Colombia/	142	Los Katios National Park/	II
Panama	236 102255	Darién National Park Punta Patiño Nature Reserve	II
Costa Rica/	2553 12491	La Amistad National Park Las Tablas Protected Zone/	II VI
Panama	2552 17185 102253	La Amistad National Park Palo Seco Lagunas de Volcán	II VI IV
Costa Rica/	19402	Gandoca y Manzanillo National Wildlife Refuge/	IV
Panama	16787	Isla Bastimentos Marine National Park	II
El Salvador/	9638	Montecristo National Park/	IV
Guatemala/	102815	Fraternidad o Trifinio National Biosphere Reserve/	n/a
Honduras	18804	Montecristo Trifinio National Park	II
El Salvador/		Proposed/	Pr
Honduras/	40996	Río Negro Biological Reserve/	IV
Nicaragua	12652	Estero Real Natural Reserve	II
Guatemala/		Lacandón National Park/	
Mexico	14305 67671	Montes Azules Biological Reserve Bonampak National Monument	Ia III
Honduras/	41014 41045 41013 41034	Río Plátano National Park Tawasha Indigenous Reserve Patuca National Park Río Coco Natural Monument/	Pr II Pr
Nicaragua	2650	Bosawas National Reserve	VI
Argentina/	15 61817	Iguazú National Park Iguazú Strict Nature Reserve/	II Ia
Brazil/	60	Iguaçu National Park/	II
Paraguay		M.S. Bertoní	
Argentina/	97490 97523	Nahuel Huapi National Park Nahuel Huapi Strict Nature Reserve/	II Ib
Chile	90 88	Puyehue National Park Vicente Pérez Rosales National Park	II II
Argentina/	7 61820 2497 30844 16875	Lanín National Park Lanín Strict Nature Reserve Lanín Natural Monument Complejo Islote Lobos Chañy Forest Reserve/	II Ia II IV VI
Chile	91 10706 9418	Villarrica National Park Villarrica National Reserve Huerqueque National Park	II IV II
Argentina/	6 4329	Los Glaciares National Park Los Glaciares Strict Nature Reserve/	II Ia
Chile	9414 89	Bernardo O'Higgins National Park Torres del Paine National Park	II II
Argentina/	16873	Copahue -Caviahue Provincial Park/	II
Chile	111	Ñuble Reseserva Nacional	IV

Countries	WCMC Code	Designated Areas	IUCN Category
Bolivia/	20049	Iténez Reserva Fiscal/	VI
Brazil	5126 41090 34028	Guaporé Federal Biological Reserve Baixo Sao Miguel State Extractive Forest Pedras Negras State Extractive Forest	Ia VI VI
Bolivia/	36	Eduardo Avaroa National Reserve/	IV
Chile	94112 30043	Liancabur National Park Los Flamencos National Reserve	II IV
Bolivia/	33 20030 20035	Sajama National Park Sajama Integrated Management Area Altamachi Vicuña Reserve/	II IV
Chile	86 9435	Lauca National Park Las Vicuñas National Reserve	II IV
Bolivia/	98183	Madidi National Park/	II
Peru	7460	Pampas de Heath National Sanctuary	III
Brazil/	101760	Tucumaque Forest Reserve/	VI
Suriname	276	Sipaliwini Nature Reserve	IV
Brazil/	54	Pico da Neblina National Park/	II
Venezuela	4367	Serranía La Neblina National Park	II
Colombia/	9400	La Paya National Park/	
Ecuador/	2499 186	Cuyabeño Reserva Faunística Yasuni/	II VI
Peru	98245	Guepí National Reserve	II
Colombia/	144	Tamá Natural National Park/	II
Venezuela	322 101129 30640	El Tamá National Park Cerro Machado- El Silencio San Antonio- Ureña Protected Zone	II VI V
Colombia/	19993	Catatumbo-Bari National Park/	II
Venezuela	318 20068	Perijá National Park Región Lago de Maracaibo -Sierra de Peri Protected Zone	II V
Europe			
Albania/		Prespa Lake National Park/	
Greece/	674	Prespes National Park/	II
Former Yugoslav Republic of Macedonia	2516 1056	Galichica National Park Pelister National Park	II II
Austria/	102736 103578	Thayatal Protected Landscape Area Thayatal Nature Reserve/	V IV
Czech Republic	30721 4280 61419	Podyjí National Park Podyjí Protected Landscape Area Palava Protected Landscape Area	II V V
Austria/	102882 5425	Lainsitzniederung Strict Nature Reserve Blockheide Eibenstein Nature Park Blockheide Eibenstein Nature Reserve Northern Waldviertel Area/	V V V
Czech Republic	2558	Trebonsko Protected Landscape Area	V
Austria/		Bayerischer Wald, Böhmerwald, Sumava National Park/	Pr
Czech Republic/	4282 26059 26059	Šumava CHKO Protected Landscape Area Šumava National Park Sumaveská Raselinisté/	V II II
Germany	67870 64659	Bayerischer Wald Nature Park Deilanderregion Böhmerwald Biosphere Reserve	V Pr
Austria/	31402	Kalkhochalpen Nature Reserve/	IV
Germany	688	Berchtesgaden National Park	II

Countries	WCMC Code	Designated Areas	IUCN Category	
Austria/	1218	Neusiedlersee Nature Reserve	IV	
	62709	Neusiedlersee - Seewinkel National Park	II	
	102857	Neusiedler See und Umgebung Protected Landscape Area/	V	
Hungary	9566	Fertő Hanság National Park	II	
Austria/	18769	Donau-Auen National Park	II	
	31412	Donau-March Protected Landscape Area	V	
	68341	Auen Protected Landscape Area	V	
	1220	Marchaven-Marchegg NSG Nature Reserve	Un	
	31408	Untere Marchauen Nature Reserve/	IV	
Slovakia	19034	Slovakia Zahorie CHKO Protected Landscape Area	V	
	12155	Male Karpaty Protected Landscape Area	V	
Belarus/	1985	Belovezhskaya Pushcha National Park/	II	
Poland	854	Bialowiecki National Park	II	
Belarus/	1644	Pripiatsky National Park/	Ib	
Ukraine	1749	Polessky Nature Reserve	Ia	
Belgium/	18950	Hautes Fagnes Eifel Nature Park/	V	
Germany	6971	Nordeifel Nature Park	V	
		Deutsch-belgischer Naturpark Hohes Vend-Eifel		
Bosnia-Herzegovina/	1055	Sutjeska National Park/	II	
Yugoslavia,, FR (Montenegro)	15596	Tara National Park	II	
	1051	Durmitor National Park	II	
Croatia/	15605	Kopacki Rit Special Reserve	Ia	
	15602	Kopacki Rit Nature Park/	V	
Hungary	9683	Mohacsi Tortenelmi Emlékhegy Nature Conservation Area	IV	
	100798	Duna-Drava National Park	V	
Czech Republic/	4275	Protected Landscape Area Labské Pískovce/	V	
Germany	32666	Sächsische Schweiz National Park	V	
	11800	Sächsische Schweiz Protected Landscape Area	V	
Czech Republic/	61421	Luzicke Hory PLA		
Germany	20920	Zittauer Gebirge PLA	V	
Czech Republic/	645	Krkonoše National Park	V	
		Protected Landscape Area Iser Mountains/		
Poland	852	Karkonoski National Park	II	
Czech Republic/	4267	Beskydy Protected Landscape Area/	V	
Poland/	12270	Zywiecki Park Krajobrazowy/	V	
Slovak Republic	11812	Protected Landscape Area Kysuce CHKO	V	
Czech Republic/	12154	Protected Landscape Area White Carpathians/	V	
Slovak Republic	12159	Biele Karpaty Protected Landscape Area	V	
Denmark/	92491	Waddensea Nature Reserve		
	5762	Vadehavet Wildlife Reserve	IV	
	17703	Vadehavet Conservation Area	V	
	64575	Vadehavet National Nature Area/	IV	
	Germany/	4380	Rantumbecken Nature Reserve	IV
		1541	Nord-Sylt Nature Reserve	IV
		33391	Hosteinische Schweiz Nature Park	V
		32669	Schleswig-Holsteinisches Wattenmeer National Park	V
11837		Niedersaohsisones Wattenmeer National Park	V	
30116		Dollart Nature Reserve	IV	
Netherlands	82256	Nordfriesisches Wattenmeer Nature Reserve/	IV	
	64617	Dollard Nature Reserve		
Finland/	12754	Waddensea Area Biosphere Reserve	n/a	
	654	Leimenjoki National Park/	II	
Norway	822	Ovre Annarjakka National Park	II	

Countries	WCMC Code	Designated Areas	IUCN Category
Finland/ Norway	12297	Kasivarsi Wilderness Area/ Reisa National Park Raisdoutterhaldi Protected Landscape Area	II
Finland/ Norway/ Russian Federation	832 62446	Vätsäri Wilderness Area/ Ovre Pasvik National Park & Reserve/ Pasvik Zapovednikovednik	II Ia
Finland/ Russian Federation	656 68351	Oulanka National Park/ Paanajärvi National Park	II II
Finland/ Russian Federation	2561 1700	Urho Kekkonen National Park/ Laplandskiy Zapovednik	IV Ia
Finland/ Russian Federation	1523 102007 102041 13988	Friendship Nature Reserve, Kainou Park Elimussalo Nature Reserve Lehtua Nature Reserve Ulvinsalo Strict Nature Reserve Juortansalo-Lapinuo Protected Mire Lososuo-Saarjarvi Protected Mire Iso-Palonen & Maariansarkat Nature Reserve/ Kostomukskiy Zapovednik (Friendship Nature Reserve)	Ia IV IV Ia
Finland/ Sweden	40928 30811 1397 106872	Perameri National Park/ Haparanda Archipelago National Park Haparanda-Sandskar Nature Reserve Haparanda Skärgård National Park	II Pr IV II
France/ Germany	6307 81245	Vosges du Nord Regional Nature Park/ Pfälzerwald Nature Park	V II
France/ Italy	661 10350 718	Vanoise National Park Vanoise National Park Buffer Zone/ Gran Paradiso National Park	II V V
France/ Italy	664 14618	Mercantour National Park/ Maritime Alps National Park	II V
France/ Spain	662 703151 893	Pyrenees Occidentales National Park Pyrennes Occidentales National Park BZ/ Ordessa y Monte Perdido National Park	II II II
Hungary/ Slovak Republic	13652 4376	Aggtelek National Park/ Slovenský Kras CHKO Protected Landscape Area	II V
Hungary/ Slovak Republic	30853 680 14146	Karancs-Madves Protected Area Bükki National Park/ Protected Landscape Area Cerová Vrchovina	V II V
Italy/ Slovenia	15346 2517	Foresta Di Tarvisio Nature Reserve Regional Park Alpi Giulie/ Triglavski National Park	Un II
Italy/ Switzerland	717 915	Stelvio National Park/ Suisse National Park	V Ia
Lithuania/ Russian Federation	31552 68348	Kursiu Nerija National Park/ Kurshaskayja Kosa National Park	II II
Former Yugoslav Republic of Macedonia/ Yugoslavia, FR (Serbia)	1050	Mavrovo National Park/ Shara Mountains National Park	II II
Norway/ Sweden	829 905 906 3998 30818	Rago National Park Tysfjord Hellembotn National Park/ Padjelanta National Park Sarek National Park Stora Sjöfallet National Park Sjaunja Nature Reserve	II Pr. II II V Pr

Countries	WCMC Code	Designated Areas	IUCN Category
Norway/	826	Femundsmarka National Park	II
	9906	Femundsmarka Protected Landscape Area	V
	833	Gutulia National Park/	II
Sweden	10401	Rogen Nature Reserve	IV
	30816	Rogen-Langfjallet National Park Töfsingdalen National Park	Pr
Norway/	125857	Lunddsneset Nature Reserve/	Ia
Sweden	30821	Tresticklan National Park	
Poland/	848	Tatranski National Park/	II
Slovak Republic	1975	Tatranský National Park	II
Poland/	106887	Babiogorski National Park/	II
Slovak Republic	12160	Horná Orava CHKO Protected Landscape Area	V
	14115	Babia Hora National Nature Reserve	Ia
Poland/	857	Pieninski National Park/	II
Slovak Republic	646	Pieninskiy National Park	II
Poland/	851	Bieszczadzski National Park Magura National Park	II
	67746	E. Carpathian - E Beskeid? Biosphere Reserve/	n/a
Slovak Republic/	67750	E. Carpathians Biosphere Reserve	n/a
	12157	Vychodne Karpaty CHKO Protected Landscape Area/	V
Ukraine	1990	Karpatskiy National Biosphere Reserve, Zapovednik	Ia
	1745	Karpatskiy National Nature Park	II
Portugal/	860	Peneda-Geres National Park/	II
Spain	71215	Baixa-Lima-Serra do Xures Natural Park	V
Romania/	28791	Danube Delta Biosphere Reserve	n/a
	31702	Rosca-Buhaiova National Reserve	Ia
	31703	Letea Nature Reserve/	Ia
Ukraine	4814	Dunaiskie Plavni Nature Zapovednik.	Ia
Romania/	11150	Cazanele Forest Reserve/	IV
Yugoslavia, FR (Serbia)	2522	Djerdap National Park	V
Africa			
Angola/	347	Iona National Park	VI
	2251	Mocamedes Parital Reserve/	IV
Namibia	885	Skeleton Coast Game Park	II
Angola/	4493	Mucusso National Park Liuana Partial Reserve/	IV IV
Namibia/	7442	W. Caprivi Game Reserve/	VI
Zambia	30052	Mamili National Park	II
Angola/	4493	Liuana Partial Reserve/	IV
Zambia	1087	Sioma Ngweze National Park	II
	4081	West Zambezi Game Management Area	VI
Benin/	597	Boucle de la Pendjari National Park	II
	2253	Pendjari Hunting Zone	VI
	2254	Atakora Hunting Zone/	VI
Burkina Faso	3228	Pama Partial Faunal Reserve	IV
	3226	Arly Total Faunal Reserve	IV
	9264	Arly Partial Faunal Reserve	IV
	4488	Kourtiagou Partial Faunal Reserve	IV
Benin/	12201	"W" du Benin National Park/	II
Burkina Faso/	1048	"W" du Burkina Faso National Park	II
	4488	Kourtiagou Partial Faunal Reserve/	IV
Niger	818	"W" du Niger National Park	II

Countries	WCMC Code	Designated Areas	IUCN Category
Botswana/ Namibia/ South Africa	7508 97586 874	Gemsbok National Park/ Kalahari Private Reserve/ Kagalagadi Transfrontier Park (Kalahari Gemsbok National Park)	II Un II
Botswana/ South Africa/ Zimbabwe	21174 3059	Northern Tuli Game Reserve/ Vhembe-Dongola Nature Reserve Limpopo Valley National Park/ Tuli Safari Area	IV VI
Burundi/ Rwanda	9161 9148	Kibira National Park/ Nyungwe Forest Reserve	IV IV
Cameroon/ Central African Republic/ Republic of Congo	31458 31459 72332	Lake Loboke/ Dzanga-Ndoki National Park Dzanga Sangha Forest Special Reserve/ Nouabalé Ndoki National Park	Pr II VI II
Cameroon/ Nigeria	20058 20299	Korup National Park/ Cross River National Park	II II
Central African Republic/ Sudan	2261 5090	Yata-Ngaya Faunal Reserve/ Radom National Park	IV II
Côte d'Ivoire/ Guinea/ Liberia	1295 29067 9176 20175	Mont Nimba Strict Nature Reserve/ Mont Nimba Strict Nature Reserve/ E. Nimba National Forest W. Nimba National Forest	Ia Ia Un Un
The Gambia/ Senegal	2290 866	Niomi National Park/ Delta (Iles) du Saloum National Park	II II
Guinea/ Senegal	29069 29409 865	Badiar National Park Badiar-Sud Classified Forest/ Niokola Koba National Park	II Un II
Kenya/ Tanzania	1297 7437 916 918	Maasai Mara National Park/ Maswa Game Reserve Serengeti National Park Ngorongoro Crater Conservation Area	II IV II VI
Kenya/ Somalia	2417 13715 872 13710 13714	Boni Dodori National Reserve/ Juba Left Controlled Hunting Area Lag Badana National Park Bushbush Game Reserve Bushbush Controlled Hunting Area	VI Un Pr. VI
Kenya/ Tanzania	19564 1402 7433	Tsavo West National Park/ Mkomazi Game Reserve Umba Game Reserve	II IV IV
Kenya/ Tanzania	758 7633 922 31593	Amboseli National Park Loitokitok Forest Reserve/ Kilimanjaro National Park Kilimanjaro Game Reserve	II Un II IV
Kenya/ Uganda	760 9179	Mount Elgon National Park/ Sebei Controlled Hunting Area	II VI
Malawi/ Zambia	779 1102	Nyika National Park/ Nyika National Park	II II
Malawi/ Zambia	4648 4102	Vwaza Marsh Wildlife Reserve/ Musalangu Game Management Area	IV VI
Malawi/ Zambia	780 1088 1086 1100 1091	Kasungu National Park/ N Luangwa National Park S Luangwa National Park Luambe National Park Lukusuzi National Park	II II II II II

Countries	WCMC Code	Designated Areas	IUCN Category
Mauritania/ Senegal	9310 867 11653	Diawling National Park/ Djoudj National Park Gueumbeul Special Faunal Reserve	II II IV
Mozambique/ South Africa/ Swaziland	4652 116329 39758	Maputo Game Reserve/ Ndumu Game Reserve Tembe Elephant Park Reserve/ Hlane National Park, Mlawula Nature Reserve	IV II IV
Mozambique/ South Africa/ Zimbabwe	20295 800 799 873 1104	Limpopo Valley Wildlife Utilization Area – Coutada 16 Zinave National Park Banhine National Park/ Kruger National Park/ Gonarezhou National Park	VI II II II II
Namibia/ South Africa	8785 30851	Ai-Ais Hot Springs Game Park Fish River Canyon/ Richtersveld National Park	II II
Rwanda/ Uganda/ Democratic Republic of Congo (Zaire)	863 18436 18437 1081 20331	Volcans National Park/ Mgahinga Gorilla National Park Bwindi Impenetrable Forest National Park/ Virunga National Park Rutshuru Hunting Zone	II II II VI
Sudan/ Uganda	904 7933/ 31275 64700 3276	Nimule National Park/ Otze- Dufile Wildlife Sanctuary Otze Forest Forest Reserve Mount Kei White Rhino Sanctuary	II IV Un IV
Sudan/ Uganda	1369 958	Kidepo Game Reserve/ Kidepo Valley National Park	VI II
Sudan/ Democratic Republic of the Congo (Zaire)	10737 1083 20036	Lantoto National Park/ Garamba National Park Mondo Misso Hunting Zone	Pr. II VI
Uganda/ Democratic Republic of the Congo (Zaire)	18438 9184 1446 1081	Rwenzori Mountains Semliki Controlled Hunting Area Semliki National Park Queen Elizabeth National Park Kyambura Game Reserve/ Virunga National Park	II VI II II IV
Zambia/ Zimbabwe	7692 2531 2524	Lower Zambezi National Park/ Mana Pools National Park Charara Safari Area Sapi , Chewore, Dande Special Areas	II II VI VI
Zambia/ Zimbabwe	2347 62183 1993 2530	Mosi-oa-Tunya National Park Victoria Falls National Monument/ Victoria Falls National Park Zambezi National Park	III III III II
Asia			
Bangladesh/ India Bhutan/ India	4478 9960 7996 1818 9232 62663	Sundarbans W. Wildlife Sanctuary/ Sundarbans National Park/ Royal Manas National Park Black Mountain National Park/ Manas Sanctuary Buxa Sanctuary Buxa National Park	IV Ia II IV IV Un

Countries	WCMC Code	Designated Areas	IUCN Category
Brunei Darussalam/	39641	Labi Hills	Ia
	18035	Labi Hills Labi Hills/	V Un
Malaysia	3790 3939	Gading Forest Reserve Gunung Gading National Park	II
Brunei Darussalam/	32948 3937	Sungei Ingei Conservation Area Ensengi Forest Reserve/	Ia Un
Malaysia	787	Gunung Mulu National Park	II
Cambodia/	12249	Preh Vihear Protected Landscape/	V
Thailand	1415	Yot Dom Phanom Dong Rak Wildlife Sanctuary	IV
Cambodia/	68862	Virachey National Park/	II
Laos/	18872	Dong Ampham Nature Reserve Nam Kong Nature Reserve Altopeu/	VI Pr Pr
Vietnam	12171	Mom Ray Nature Reserve	IV
China/	95461 95460 96016	Jingpo Lake Nature Reserve Mudan Peak Nature Reserve Changbai Mountains Biosphere Reserve/	II VI n/a
N. Korea/	17908	Paekdu Mountain Nature Protection Area/	IV
Russian Federation	1726	Kedrovaya Pad Zapovednik	Ia
China/	96064	Dalai Lake Nature Reserve/	IV
Mongolia/	93538	Mongul Daguur Strict Protected Area/	Ib
Russian Federation	62684	Daurskiy Zapovednik	Ia
China (Tibet)/	95785 95784	Zhu Feng Nature Reserve Jiang Cun Nature Reserve/	Ib VI
Nepal	804 803 26606 26605	Sagarmatha National Park Langtang National Park Makalu-Barun National Park Makalu-Barun Conservation Area	II II II IV
China/	96118	Ta Shi Ku Er Gan Nature Reserve/	Ib
Pakistan	836	Khunjerab National Park	II
China/	95476	Xing Kai Lake Nature Reserve/	VI
Russian Federation	62691	Khankaikiy Zapovednik.	Ia
China/	95471	Hunhe Nature Reserve Hong River Nature Reserve/	VI
Russian Federation	1715	Bol'shekhkhtsiziyskiy Zapovednik	Ia
China (Guangxi)/	95872 95618	Gu Long Mountain Shui Yuan Lin Xia Lei Shui Yuan Lin Nature Reserve/	VI VI
Vietnam	10360	Trungkhanh	IV
China/	99776 95742	Guan Yin Mountain Nature Reserve Fen Shui Ling Peak Nature Reserve/	VI
Vietnam	10357	Hoang Lien Son #2	IV
India/	1807 691	Katarniaghat Sanctuary Dhudhwa National Park/	IV II
Nepal	1308	Royal Bardia National Park	II
India/	4578 12414 4543	Valmiki Sanctuary Sohagibarwa Sanctuary Udaipur Sanctuary/	IV IV IV
Nepal	805	Royal Chitwan National Park	IV II
India/	19683	Kachchh Desert Sanctuary/	IV
Pakistan	6684	Rann of Kutch Wildlife Sanctuary	IV

Countries	WCMC Code	Designated Areas	IUCN Category
Indonesia (Kalimantan)/	8673	Gunung Bentang Karimum National Park/	II
Malaysia (Sarawak)	1300	Lanjak Entimau Wildlife Sanctuary	IV
	12250	Batang Ai National Park	II
Indonesia/	29966	Wasur National Park/	II
Papua New Guinea	4200	Tonda Wildlife Management Area	VI
	4202	Maza Wildlife Management Area	VI
Kyrgyz Republic/	1675	Besharalsky Zapovednik/	Ia
Uzbekistan	1761	Ugam-Chatkal National Park	Ia
Laos/	18893	Phou Xiang Thong National biodiversity Conservation Area/	VI
Thailand	39518	Pha Tam National Park	II
	4674	Kaeng Tana	II
Laos/	61496	Nam Et National Biodiversity Conservation Area/	VI
Vietnam	10363	Sop Cop Nature Reserve	IV
Laos/	12182	Phou Dene Dinh National Biodiversity Conservation Area/	VI
Vietnam	10362	Muong Nhe Nature Reserve	IV
Malaysia (Sabah)/	793	Pulau Penya Park/	II
Philippines	14758	Turtle Island Marine Sanctuary	IV
Mongolia/	93566	Uvs Nuur Basin Strict Protected Area/	Ia
Russia	67722	Ubsunurskaya Kotlovina	Ia
Mongolia/	93579	Khovsgul Nuur National C Park/	II
Russian Federation	68356	Turkinskiy National Park	II

Key to IUCN category field:

Pr proposed protected area

n/a not applicable (as in the case of internationally designated sites, such as biosphere reserves)

Un unassigned (not assigned to a category because the designation/site does not meet IUCN's definition of a protected area)

blank category not yet assigned (often due to inadequate information)

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