

Overlap between Protected Areas and KBAs

Overview

This report highlights the results from an overlap assessment of the World Database on Protected Areas (WDPA) and Key Biodiversity Areas (KBA) datasets, to examine the overlap between national-level protected areas and KBAs and the variation that exists between different countries/territories.

The analysis shows that, at the global level, 56% (or 7,314) of KBAs overlap to some degree with national-level protected areas. KBAs typically overlap with multiple protected areas and may overlap protected areas with different designations. Globally, 18% (or 28,959) of national-level protected areas analysed overlap with KBAs. The percentage of overlap varies by IUCN category, from 10-36%.

At the country-level, overlap varies substantially between IUCN categories and between countries. Noting that KBAs have not been identified in some countries, the percentage of national-level protected areas overlapping with KBAs ranges from 0-100%. Due to this wide variability, it is not possible to draw any overarching conclusion on overlap between protected areas and KBAs as the situation changes to such a huge extent between countries. The attached results are therefore best used as a reference document to understand the situation in any individual country of interest.

An overlap assessment such as this in the context of considering options for company screening processes offers the opportunity to 1) understand the extent to which incorporating both KBAs and protected areas in screening indicators could lead to duplication and 2) consider whether KBAs could be used to flag protected areas where biodiversity values have been identified on ground and whether this could be used to subset protected area data and whether there is any association with IUCN category in this regard. The results however suggest there is no clear pattern to indicate that KBAs are more likely to overlap with a specific IUCN category of protected area. Since KBAs are identified on the basis of internationally accepted criteria for defining biodiversity value, it would be wise to exercise caution in any approach that assumes a greater biodiversity value is associated with any one IUCN category as, in the context of overlap with KBAs, this assumption is not supported.

Introduction

Recognition of protected areas and associated mitigation measures for potential impact are common components of company approaches to biodiversity management. Internal policies and protocols may be triggered when operations are deemed to have the potential to impact on one or more protected areas. Companies may take a uniform approach to all protected area designations, or they may vary their response depending on the type or category of protected area encountered. Companies often use differences in protected area designations to define a scaled or varied management response. Two of

the common distinctions used are 1) differentiating between protected areas designated under international conventions and agreements (such as Ramsar Wetlands of International Importance or UNESCO World Heritage sites) and those designated at the national-level; and 2) using the categorisation system developed by the International Union for Conservation of Nature (IUCN)^a to distinguish between protected areas. The IUCN categories are intended to be indicative of management objectives for the sites. The respective category for each site is based on internationally developed guidelines, but decided and applied by either a national government or another stakeholder with knowledge of the site. Further detail on the IUCN Management Category system can be found [here](#) and on the [Biodiversity A-Z](#).

While the IUCN protected area management categories were developed to be universally applicable, their use is voluntary and therefore there are many gaps in the allocation of categories (28% of records for national-level protected areas in the WDPA do not have a reported management category). Additionally, those applying the categories may interpret the guidelines and any inferred relationship between management objectives and underlying biodiversity values differently, limiting the potential for meaningful comparison between countries/territories. Despite often being used for this purpose within industry biodiversity management approaches, the IUCN protected area management categories were not intended to demonstrate or be used as a hierarchical scale of importance.

While protected areas are the cornerstone of biodiversity conservation, their designation can be influenced or restricted by political, social and economic factors and they are therefore not necessarily indicative or representative of the areas of greatest biodiversity value. In recognition of the need to highlight areas important for various biodiversity features, a plethora of designation schemes have been implemented to identify biodiversity values at national, regional and global scales. One of the most well-known and comprehensive site-scale approaches is that of Key Biodiversity Areas (KBAs). Originating from Important Bird Areas and Important Plant Areas developed in the 1990s, KBAs were expanded to cover other taxa in 2004. The approach is based on globally standardised criteria related to vulnerability and irreplaceability. KBAs are now the basis for an ongoing IUCN work programme to develop a methodology to identify areas contributing significantly to the global persistence of biodiversity.

An assessment of the overlap between protected areas and KBAs will provide information in support of considerations as to whether KBAs should be recognised additionally to protected areas in company management approaches and/or whether they could be used to highlight protected areas where there are known biodiversity values on ground (demonstrated through the KBA designation).

What is a protected area?	What is a Key Biodiversity Area?
<p><i>"A clearly defined geographical space, recognised, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values"</i></p> <p>IUCN definition of a protected area Dudley N (Editor) 2008.</p>	<p><i>"KBAs are sites of global significance for biodiversity conservation. They are identified using globally standard criteria and thresholds, based on the needs of biodiversity requiring safeguards at the site scale. These criteria are based on the framework of vulnerability and irreplaceability widely used in systematic conservation planning"</i></p> <p>Langhammer et al. 2007^b</p>

^a Dudley, N. (Editor) (2008). Guidelines for Applying Protected Area Management Categories. Gland, Switzerland: IUCN. x + 86pp.

^b Langhammer et al. (2007). Identification and Gap Analysis of Key Biodiversity Areas: Targets for Comprehensive Protected Area Systems. Gland, Switzerland: IUCN

The World Database on Protected Areas (WDPA) is the most comprehensive global dataset on protected areas. As of August 2013, it contains 191,676 protected area records. According to the latest published global figures, in 2010, terrestrial national-level protected areas recorded in the WDPA covered 17 million square kilometres of the Earth's surface.^a The Key Biodiversity Areas (KBA) dataset contains spatial data for 13,020 sites (July 2013), including 2,125 marine sites which have recently been added to the dataset. The terrestrial area covered by KBAs is 9.8 million square kilometres. The KBA data used in this analysis are held by BirdLife International within the World Bird and Biodiversity Database. BP commissioned an analysis from UNEP-WCMC to assess the overlap between KBAs and the 159,889 national-level protected areas in the WDPA.^b

Methodology

Spatial data on Key Biodiversity Areas (KBA Dataset, July 2013) was overlaid with data on national-level protected areas (WDPA, August 2013) in a geographic information system (GIS) to identify the level of overlap between Key Biodiversity Areas and protected areas. Both datasets were re-projected into Mollweide equal area projection to allow for accurate area calculations.

The protected areas data were filtered to remove all protected areas designated under international conventions and agreements (such as Ramsar Wetlands of International Importance and UNESCO World Heritage sites). All protected area records identified as “proposed” sites were also removed from the analysis.

The KBA boundary (polygon) data were first dissolved to remove any overlaps within the dataset and then the overlap with national-level protected area polygon records from the WDPA was calculated. Point records for national-level protected areas were also overlaid with the KBA data, to determine the number of points falling within a KBA. The same process was followed for KBA point records falling within national-level protected areas which did not otherwise overlap with KBA polygon records. These figures were subsequently summarised to country/territory level and disaggregated by IUCN Management Category. The number of national-level protected areas with area overlap of more than and less than 90% is included in the results. Data for KBAs was taken from the World Bird and Biodiversity Database^c. Data for protected areas was taken from the World Database on Protected Areas^d.

The analysis identified the area of overlap between each protected area and KBAs. Any size of area was considered sufficient to be included in the results; a minimum threshold was not applied. The detailed results table which accompanies this report presents information on the number of protected areas which overlap by >90%, <90% and as points. This information is also summarised in Table 2. The remaining tables and figures in this report present results for the number of sites with any overlap.

^a Bertzky et al. (2012) Protected Planet Report 2012: Tracking progress towards global targets for protected areas. IUCN, Gland Switzerland and UNEP-WCMC, Cambridge, UK

^b Figure for national-level protected areas, excluding those which are listed as “proposed”

^c BirdLife International, Cambridge UK, July 2013

^d IUCN and UNEP-WCMC (2013), The World Database on Protected Areas (WDPA) August Release, Cambridge, UK: UNEP- WCMC

This approach to reporting numbers of sites overlapping, as opposed to focusing on area overlap, was used as it bypasses problems associated with multiple overlaps between KBAs and protected areas and among protected areas when calculating area overlap. Presenting results on the basis of the **total number** of sites rather than the **total area** makes it possible to show how many sites in the protected area system of each country/territory are also linked to a KBA designation. An alternative approach to present the aggregated area of overlap by country and category would result in a degree of double counting of protected areas and is, therefore, more suited to a site-level analysis of overlap.

Limitations

The methodology for this study is based on using the best available global datasets for protected areas and Key Biodiversity Areas. However, there are a number of limitations to using site data for global-scale analyses, which should be noted in the interpretation of the results and which are discussed below.

Omissions from the datasets. While these datasets represent the most up-to-date information available at the global scale for such analysis, both the protected area data and the KBA data are not complete for every country. For example, the KBA identification process has not been completed in every country, nor for all taxa, and is heavily biased towards key sites for bird conservation. The WDPA is based on records for protected areas provided to UNEP-WCMC primarily by national governments, and is also incomplete in various ways. There are 4 countries/territories where there are no protected area records that meet the criteria for this analysis and these are therefore excluded from the final results. These are listed here with total numbers of KBAs in each country/territory provided in brackets: Iraq (42) Faroe Islands (19) São Tome and Principe (6), Saint Maarten (5).

Inaccuracy in locations and boundaries. While both the WDPA and KBA data are quality checked, both may contain inaccuracies resulting from the original provision of inaccurate data. This may include sites for which attributes have been inaccurately reported, where the boundaries have been poorly digitised, or where errors related to the re-projection of data have resulted in boundary shifts.

Use of point and polygon data. The analysis uses both point (i.e. single coordinate) and polygon (i.e. delineated boundary) data. It is not possible to assess overlap using point data due to their inherent lack of an area on which to base the analysis.

Numerical basis for the analysis. The presentation of results at country/territory level is based on the number of protected area sites in each category. While the area of overlap was included as a subset of the statistics, the final results do not take account of the relative size of different protected areas and KBAs. As a consequence the results do not allow for comparison on the basis of countries/territories with few, large protected areas, versus countries/territories with many, small protected areas.

Results

This section presents the results of the analysis as follows:

Global Overview

Figure 1: Global overlap of KBAs with national-level protected areas

Figure 2 and Table 1: Global overlap of KBAs with national-level protected areas per IUCN category

Figure 3 and Table 2: Global overlap of national-level protected areas per IUCN category with KBAs

National Overview

Figure 4: Distribution of countries/territories by % of total number of national-level protected areas which overlap with KBAs

Figure 5: Map showing percentage of total number of national-level protected areas which overlap KBAs

Table 3: Countries/territories where there is 100% overlap between national-level protected areas and KBAs

Table 4: Countries/territories where there is no overlap between national-level protected areas and KBAs

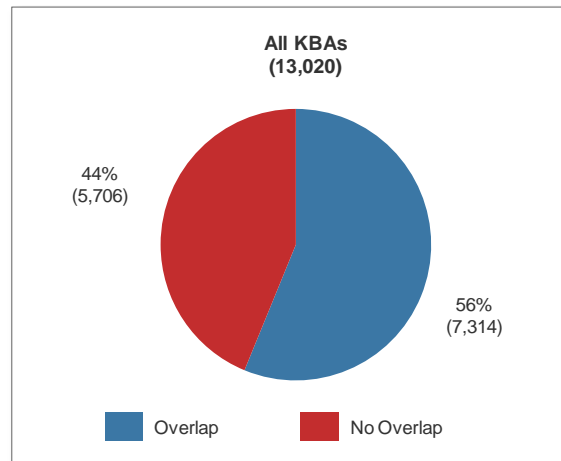
Figure 6: Country/territory breakdown of overlap of national-level protected areas with KBAs (sorted by total number of national-level protected areas – high to low)

A data table of detailed results accompanies this report.

Global Overview: KBAs

At the global level, 56% of KBAs overlap with one or more national-level protected areas. Figure 1 below shows the breakdown of the 13,020 KBAs analysed. The analysis does not differentiate between sites on the basis of the size of overlap.

Figure 1: Global overlap of KBAs with national-level protected areas



KBAs may overlap with several protected areas of the same or different IUCN management categories. The greatest percentage overlap is found between KBAs and category IV (26%) while the least overlap is shown between KBAs and category Ib (2%). Figure 2 and Table 1 below shows the percentage of KBAs overlapping with national-level protected areas in each IUCN category. Note that due to the possibility of multiple overlaps, the number of KBAs and percentages are not cumulative.

Figure 2: Global overlap of KBAs with national-level protected areas per IUCN category

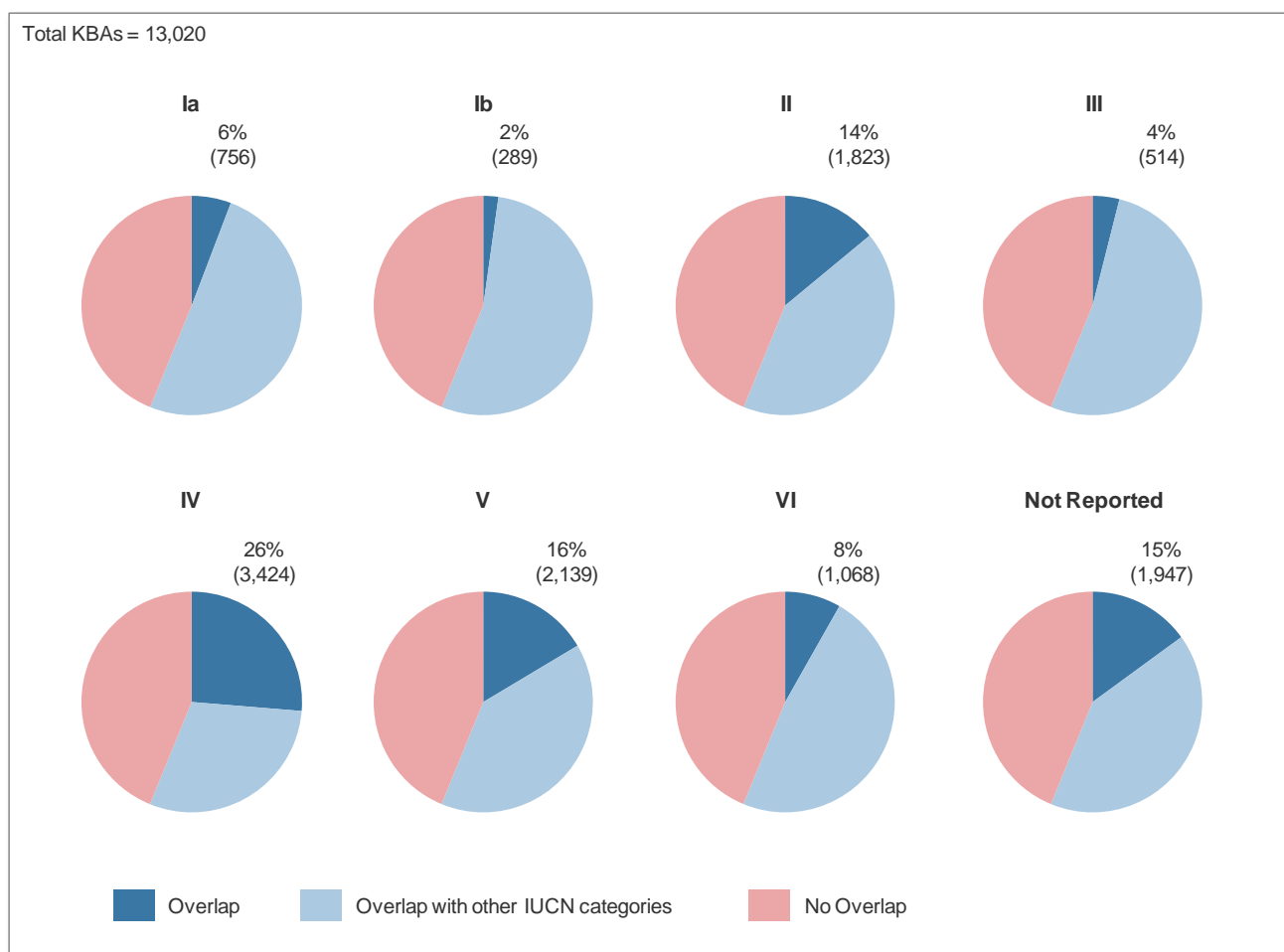


Table 1: Global overlap of KBAs with national-level protected areas per IUCN category

IUCN Category	Number of KBAs overlapping	As % of total KBAs
Ia	756	6%
Ib	289	2%
II	1,823	14%
III	514	4%
IV	3,424	26%
V	2,139	16%
VI	1,068	8%
Not Reported	1,947	15%
Total KBAs with any overlap	7,314	56%
Total KBAs with no overlap	5,706	44%

Global Overview: Protected Areas

At the global level, 18% (or 28,959) of the 159,889 national-level protected areas analysed show some overlap with KBAs. (The significant difference in the total number of records from the two datasets used in this analysis should be noted – 159,889 national-level protected areas versus 13,020 KBAs).

The overlap of national-level protected areas with KBAs varies by IUCN category. Figure 3 and Table 2 shows the number and percentage of national-level protected areas by each IUCN category according to their overlap with KBAs. The greatest percentage overlap is found between category II protected areas and KBAs (36%), while the lowest percentage is between category III protected areas and KBAs (10%).

Figure 3: Global overlap of national-level protected areas per IUCN category with KBAs (size of pie represents total number of national-level protected areas of each category)

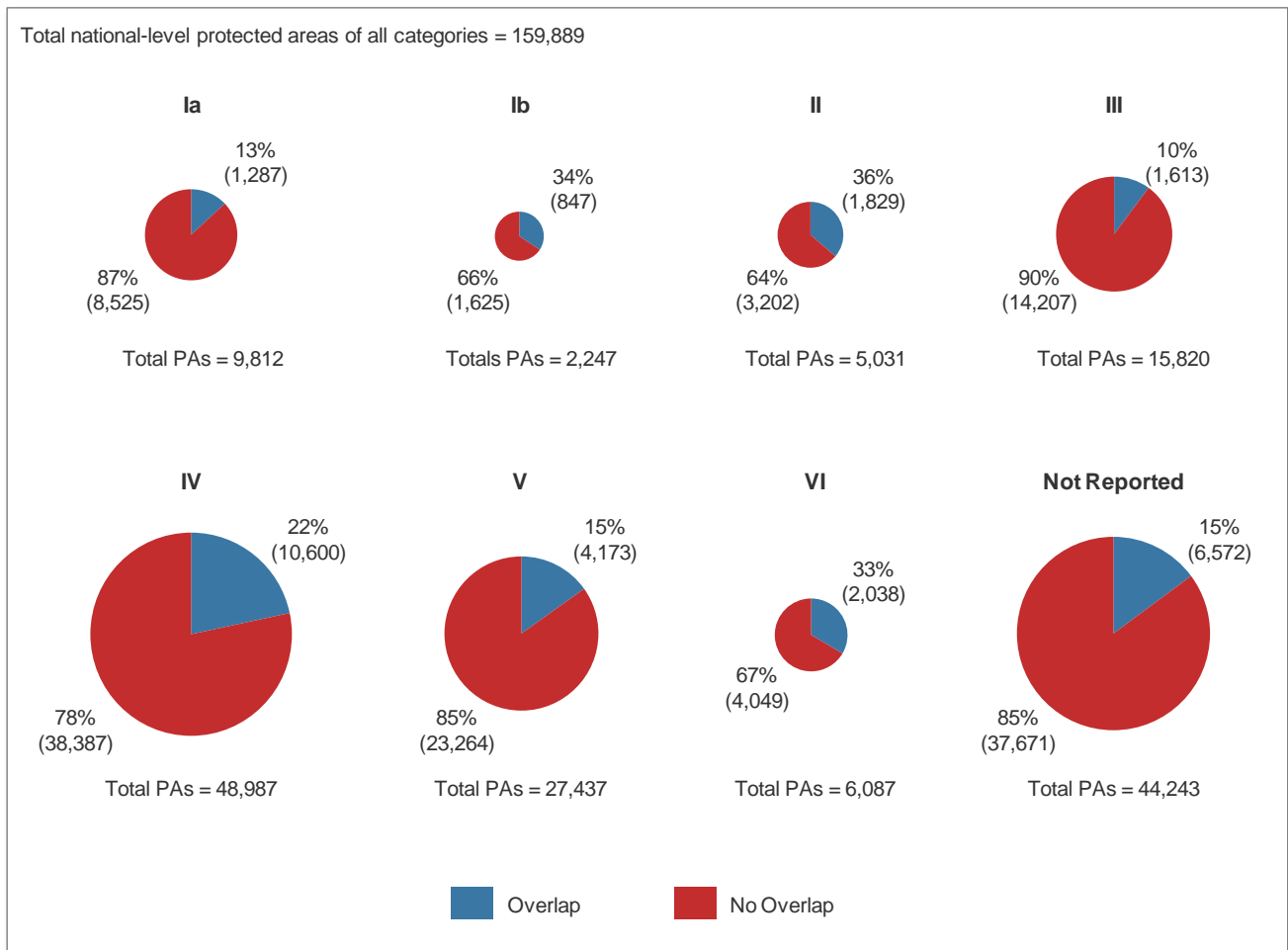


Table 2: Global overlap of national-level protected areas per IUCN category with KBAs

IUCN cat.	Total PAs	Number overlapping KBAs					Number not overlapping KBAs	
		>90%	<90%	Points	Total	%	Total	%
la	9,812	892	347	48	1,287	13%	8,525	87%
lb	2,472	660	175	12	847	34%	1,625	66%
II	5,031	1,035	701	93	1,829	36%	3,202	64%
III	15,820	945	259	409	1,613	10%	14,207	90%
IV	48,987	7,026	3,014	560	10,600	22%	38,387	78%
V	27,437	1,766	2,281	126	4,173	15%	23,264	85%
VI	6,087	1,215	758	65	2,038	33%	4,049	67%
Not Reported	44,243	4,205	1,883	484	6,572	15%	37,671	85%
Total	159,889	17,744	9,418	1,797	28,959		130,930	

National Overview

There are 11 countries/territories with no spatial data for KBAs: Aland Islands, American Samoa, Cook Islands, Guam, Guyana, Monaco, Niue, Tokelau, Tonga, Tuvalu, Wallis and Futuna. This may be due to a lack of location information, or because the KBA identification process has not taken place in these countries/territories.

Overlap between national-level protected areas and Key Biodiversity Areas varies between countries/territories. The percentage of the total number of national-level protected areas within country/territory which overlap with KBAs ranges from 0-100%, with the distribution skewed towards lower percentages (see Figure 4 and Figure 5).

Figure 4: Distribution of countries/territories by % of total number of national-level protected areas which overlap with KBAs

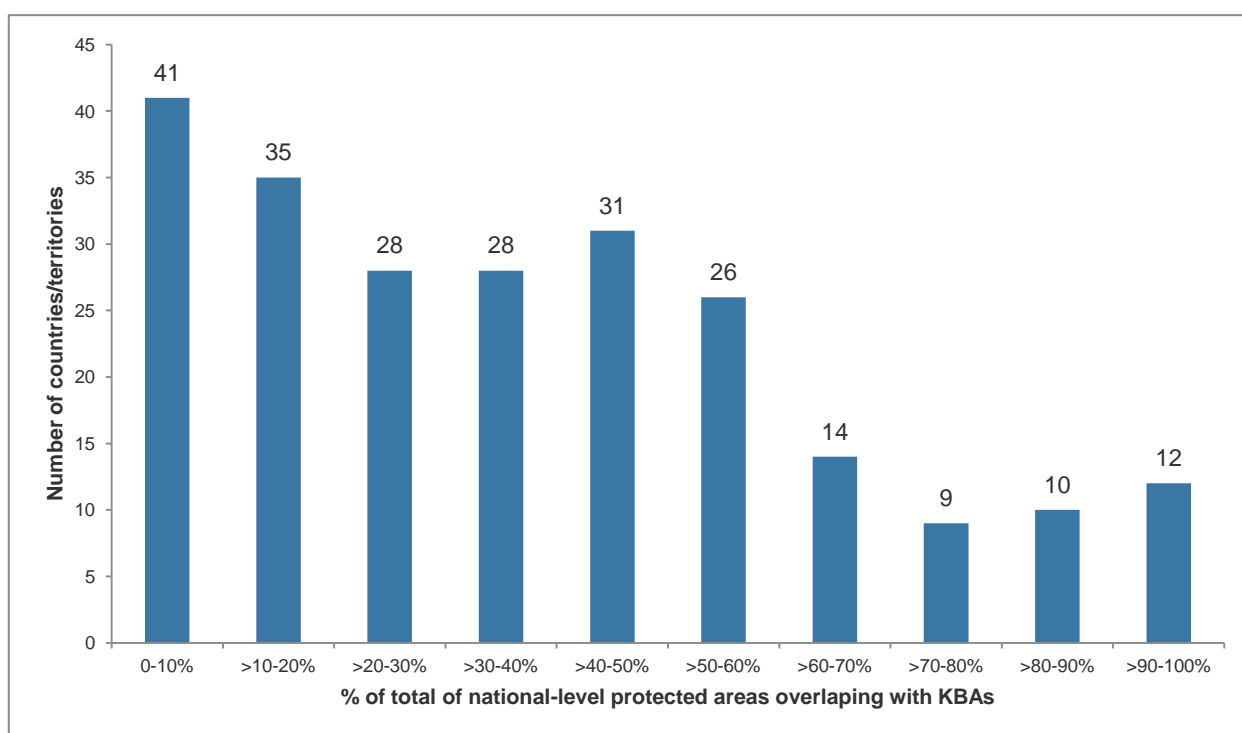
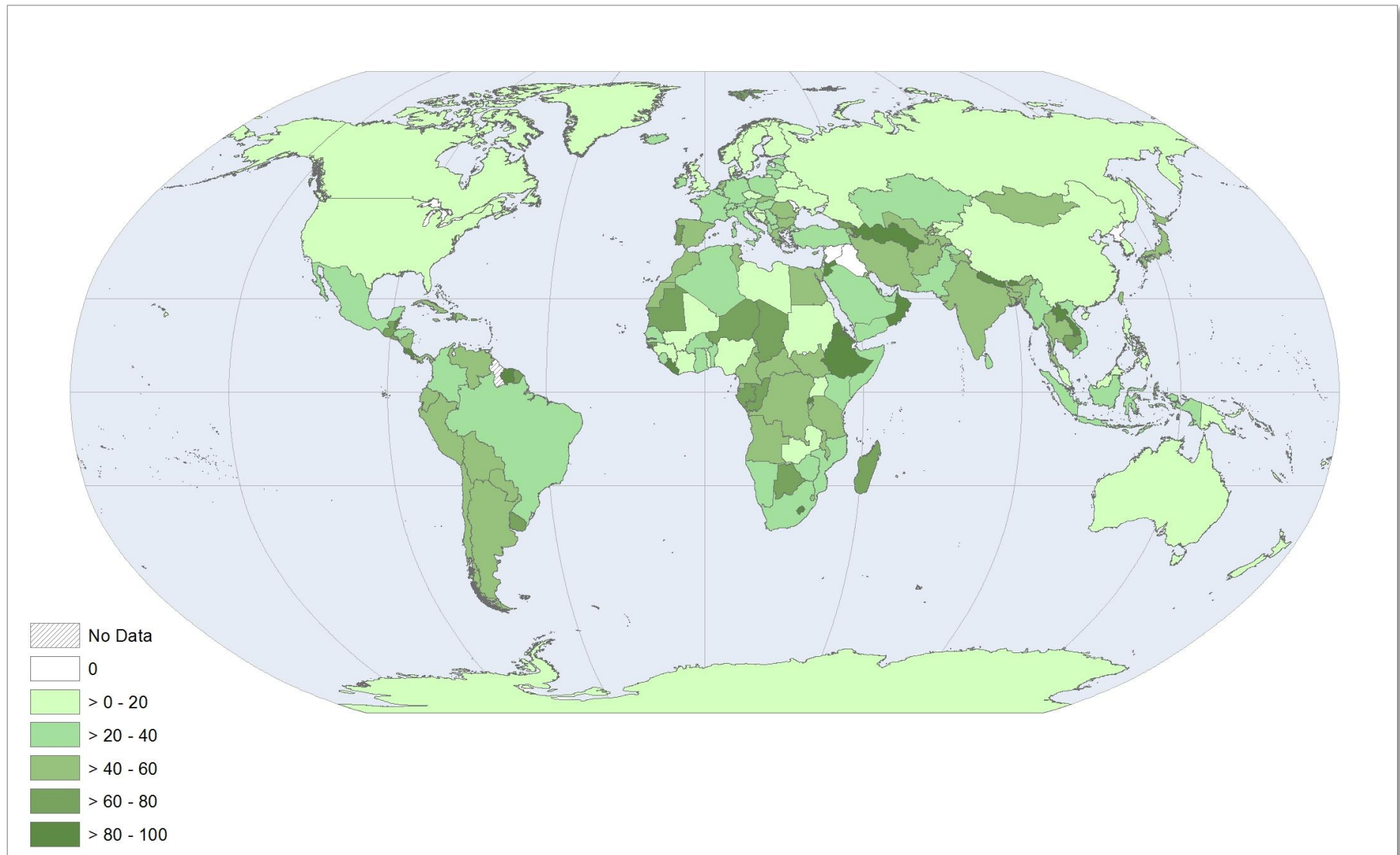


Figure 5: Map showing percentage of total number of national-level protected areas which overlap KBAs



There are 10 countries/territories where there is 100% overlap between national-level protected areas and Key Biodiversity Areas. These countries/territories typically have very few protected areas and include small island states and countries/territories where the KBA process was conducted remotely, focussing on existing protected areas.

Table 3: Countries/territories where there is 100% overlap between national-level protected areas and KBAs

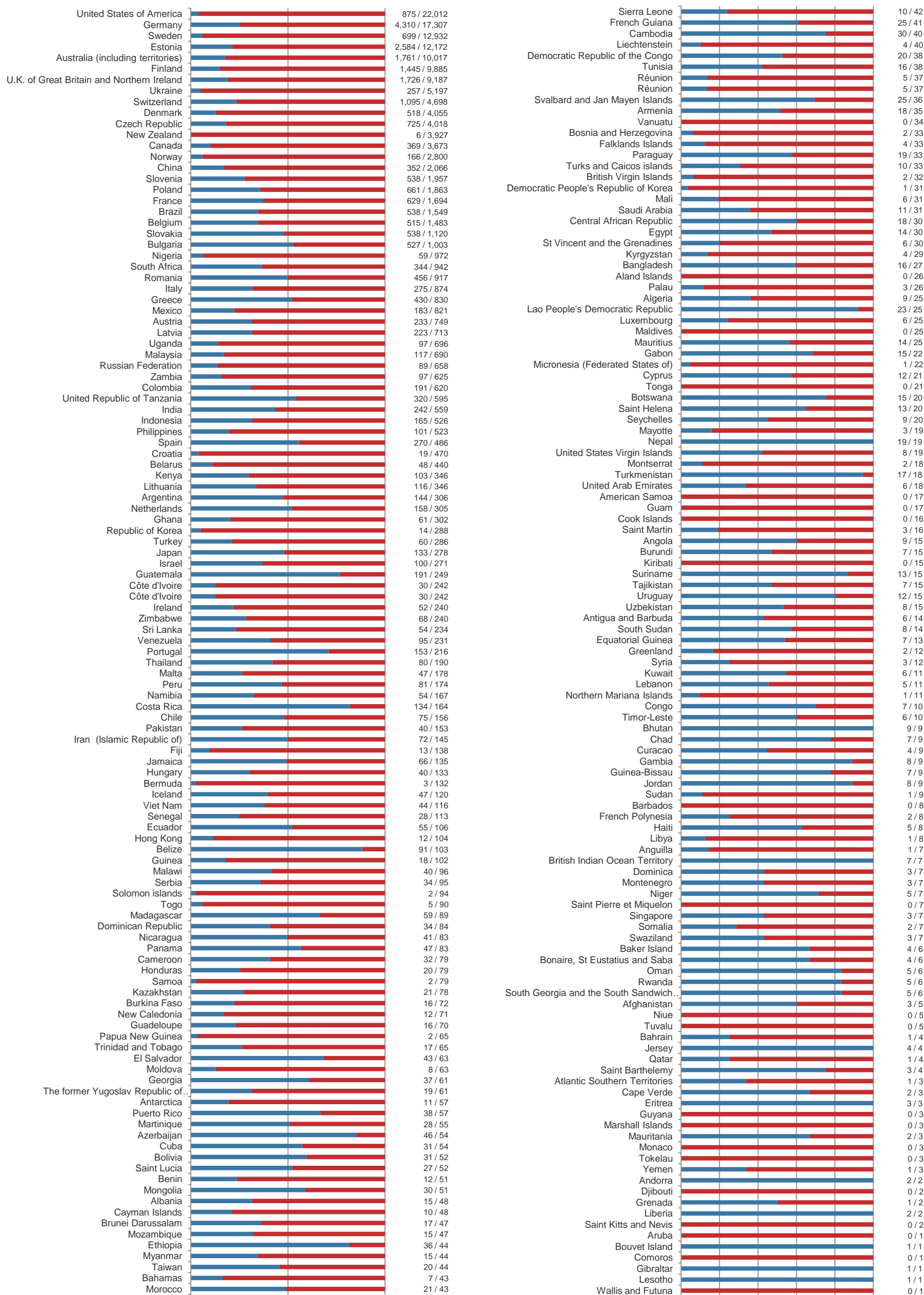
Country/territory	Total number of national-level protected areas	Total number of KBAs
Andorra	2	1
Bhutan	9	23
Bouvet Island	1	1
British Indian Ocean Territory	7	10
Eritrea	3	15
Gibraltar	1	2
Jersey	4	(KBAs classified under UK)
Lesotho	1	6
Liberia	2	19
Nepal	19	27

There are 11 countries/territories where there is no overlap between national-level protected areas and Key Biodiversity Areas. These countries/territories typically have low numbers of both national-level protected areas and KBAs

Table 4: Countries/territories where there is no overlap between national-level protected areas and KBAs

Country/territory	Total number of national-level protected areas	Total number of KBAs
Aruba	1	6
Barbados	8	13
Comoros	1	4
Djibouti	2	7
Kiribati	15	1
Maldives	25	1
Marshall Islands	3	6
Réunion	37	8
Saint Kitts and Nevis	2	4
Saint Pierre et Miquelon	7	2
Vanuatu	34	1

Figure 6: Country/territory breakdown of overlap of national-level protected areas with KBAs (sorted by total number of national-level protected areas – high to low)



■ % of number of national-level PAs overlapping with KBAs

■ % no overlap

500 / 1000 Total number of national-level PAs overlapping / total number of national-level PAs

Summary Tables

The following table shows the overlap per country/territory of national-level protected areas with KBAs.

Country/territory:	IUCN Category: Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas				
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)		
Afghanistan							1	1	(100%)				4	2	2										5	3	2		
Aland Islands																			1		1	25		25	26		26		
Albania	2		2				12	6	(50%)	6	1	5	20	5	15	4	3	1	4		4				48	15	33		
Algeria	4	2	2				9	4	(44%)	5			3		3	1	1				8	2	6	25	9	16			
American Samoa							4			4	1	1	1		1				1		1	10		10	17		17		
Andorra																					2	2		2	2		2		
Angola							6	6	(100%)				6	3	3	1		1			2		2	15	9	6			
Anguilla																					7	1	6	7	1	6			
Antarctica	26	2	24																		31	9	22	57	11	46			
Antigua and Barbuda							5	1	(20%)	4			3	2	1	3	1	2			3	2	1	14	6	8			
Argentina	38	17	21	1	1	(100%)	55	43	(78%)	12	8	3	5	24	14	10	12	2	10	149	54	95	19	10	9	306	144	162	
Armenia	3	2	1				4	4	(100%)				28	12	16										35	18	17		
Aruba																					1		1	1		1			
Atlantic Southern Territories																					3	1	2	3	1	2			
Australia (including territories)	2,512	393	2,119	69	46	(67%)	23	1,070	381	(36%)	689	2,342	250	2,092	2,299	203	2,096	229	73	156	1,365	398	967	131	17	114	10,017	1,761	8,256
Austria	3	3					6	5	(83%)	1	134	21	113	450	143	307	152	59	93	3	2	1	1		1	749	233	516	
Azerbaijan	18	15	3				8	8	(100%)				26	21	5						2	2		54	46	8			
Bahamas							10	3	(30%)	7			16	4	12						17		17	43	7	36			
Bahrain	1		1				1	1	(100%)				1		1						1		1	4	1	3			
Baker Island							1	1	(100%)				1	1		1		1			3	2	1	6	4	2			

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas		
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)
Bangladesh										11	8 (73%)	3 (27%)	10	5 (50%)	5 (50%)				6	3 (50%)	3 (50%)	27	16 (59%)	11 (41%)			
Barbados	1		1 (100%)	1		1 (100%)	1		1 (100%)	1		1 (100%)							4		4 (100%)	8		8 (100%)			
Belarus	2	2 (100%)		3	3 (100%)		315	10 (3%)	305 (97%)	119	33 (28%)	86 (72%)							1		1 (100%)	440	48 (11%)	392 (89%)			
Belgium				9	6 (67%)	3 (33%)				484	96 (20%)	388 (80%)				421	205 (49%)	216 (51%)	569	208 (37%)	361 (63%)	1,483	515 (35%)	968 (65%)			
Belize	3	3 (100%)		21	19 (90%)	2 (10%)	3	3 (100%)		34	31 (91%)	3 (9%)				36	29 (81%)	7 (19%)	6	6 (100%)		103	91 (88%)	12 (12%)			
Benin				2	2 (100%)											3	3 (100%)		46	7 (15%)	39 (85%)	51	12 (24%)	39 (76%)			
Bermuda				10	10 (100%)		64	1 (2%)	63 (98%)	6		6 (100%)	19	2 (11%)	17 (89%)	1		1 (100%)				32		32 (100%)	132	3 (2%)	129 (98%)
Bhutan	1	1 (100%)		4	4 (100%)					4	4 (100%)											9	9 (100%)				
Bolivia				2	2 (100%)		17	10 (59%)	7 (41%)				18	14 (78%)	4 (22%)		5	3 (60%)	2 (40%)	10	4 (40%)	6 (60%)	52	31 (60%)	21 (40%)		
Bosnia and Herzegovina																			33	2 (6%)	31 (94%)	33	2 (6%)	31 (94%)			
Botswana				7	7 (100%)		6	4 (67%)	2 (33%)				7	4 (57%)	3 (43%)							20	15 (75%)	5 (25%)			
Bouvet Island	1	1 (100%)																				1	1 (100%)				
Brazil	158	67 (42%)	91 (58%)				303	132 (44%)	171 (56%)	25	11 (44%)	14 (56%)	43	11 (26%)	32 (74%)	230	98 (43%)	132 (57%)	243	93 (38%)	150 (62%)	547	126 (23%)	421 (77%)	1,549	538 (35%)	1,011 (65%)
British Indian Ocean Territory				4	4 (100%)								1	1 (100%)					2	2 (100%)		7	7 (100%)				
British Virgin Islands				1		1 (100%)	2		2 (100%)	2		2 (100%)							27	2 (7%)	25 (93%)	32	2 (6%)	30 (94%)			
Brunei Darussalam	26	9 (35%)	17 (65%)				3	3 (100%)								7	1 (14%)	6 (86%)				11	4 (36%)	7 (64%)	47	17 (36%)	30 (64%)
Bulgaria	55	51 (93%)	4 (7%)				3	3 (100%)		349	175 (50%)	174 (50%)	35	16 (46%)	19 (54%)	11	10 (91%)	1 (9%)	510	237 (46%)	273 (54%)	40	35 (88%)	5 (13%)	1,003	527 (53%)	476 (47%)
Burkina Faso				3	2 (67%)	1 (33%)							9	8 (89%)	1 (11%)							60	6 (10%)	54 (90%)	72	16 (22%)	56 (78%)
Burundi										2		2 (100%)	11	6 (55%)	5 (45%)	2	1 (50%)	1 (50%)							15	7 (47%)	8 (53%)
Cambodia				6	4 (67%)	2 (33%)	1	1 (100%)					16	16 (100%)		3	1 (33%)	2 (67%)	3	2 (67%)	1 (33%)	11	6 (55%)	5 (45%)	40	30 (75%)	10 (25%)
Cameroon				17	13 (76%)	4 (24%)							9	4 (44%)	5 (56%)							53	15 (28%)	38 (72%)	79	32 (41%)	47 (59%)
Canada	493	62 (13%)	431 (87%)	186	21 (11%)	165 (89%)	1,506	99 (7%)	1,407 (93%)	291	27 (9%)	264 (91%)	228	34 (15%)	194 (85%)	16	1 (6%)	15 (94%)	936	125 (13%)	811 (87%)	17		17 (100%)	3,673	369 (10%)	3,304 (90%)

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas		
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)
Cape Verde																			3	2	1	3	2	1	3	2	1
																				(67%)	(33%)		(67%)	(33%)			
Cayman Islands				3	3		12	2	10				31	4	27				2	1	1	48	10	38	48	10	38
					(100%)			(17%)	(83%)					(13%)	(87%)					(50%)	(50%)		(21%)	(79%)			
Central African Republic	1	1					4	4					8	7	1			1	1		16	5	11	30	18	12	
		(100%)						(100%)						(88%)	(13%)					(100%)		(31%)	(69%)		(60%)	(40%)	
Chad							2	2					7	5	2									9	7	2	
								(100%)						(71%)	(29%)										(78%)	(22%)	
Chile	2	1	1				35	24	11	16	7	9	103	43	60									156	75	81	
		(50%)	(50%)					(69%)	(31%)		(44%)	(56%)		(42%)	(58%)										(48%)	(52%)	
China	1		1										2	2		1,862	325	1,537	22	5	17	179	20	159	2,066	352	1,714
			(100%)											(100%)			(17%)	(83%)		(23%)	(77%)		(11%)	(89%)		(17%)	(83%)
Colombia							37	32	5	1		1	11	8	3				7	5	2	564	146	418	620	191	429
								(86%)	(14%)		(100%)			(73%)	(27%)					(71%)	(29%)		(26%)	(74%)		(31%)	(69%)
Comoros							1		1															1		1	
									(100%)																	(100%)	
Congo							3	3					3	2	1							4	2	2	10	7	3
								(100%)						(67%)	(33%)								(50%)	(50%)		(70%)	(30%)
Cook Islands							1		1				4		4				7		7	4		4	16		16
									(100%)						(100%)						(100%)			(100%)			(100%)
Costa Rica	8	5	3	1	1		23	21	2				38	33	5				39	33	6	55	41	14	164	134	30
		(63%)	(38%)		(100%)			(91%)	(9%)					(87%)	(13%)					(85%)	(15%)		(75%)	(25%)		(82%)	(18%)
Côte d'Ivoire	3	2	1				8	6	2				2	1	1				1		1	228	21	207	242	30	212
		(67%)	(33%)					(75%)	(25%)					(50%)	(50%)						(100%)		(9%)	(91%)		(12%)	(88%)
Croatia				5		5	8	2	6	113	1	112	81	2	79	93	12	81	2	1	1	168	1	167	470	19	451
					(100%)			(25%)	(75%)		(1%)	(99%)		(2%)	(98%)		(13%)	(87%)		(50%)	(50%)		(1%)	(99%)		(4%)	(96%)
Cuba				1	1		20	14	6	1	1		20	8	12	4	1	3	7	5	2	1	1		54	31	23
					(100%)			(70%)	(30%)		(100%)			(40%)	(60%)		(25%)	(75%)		(71%)	(29%)		(100%)			(57%)	(43%)
Curacao							1	1														8	3	5	9	4	5
								(100%)															(38%)	(63%)		(44%)	(56%)
Cyprus	1	1					14	9	5	1		1	4	2	2	1		1							21	12	9
		(100%)						(64%)	(36%)			(100%)		(50%)	(50%)			(100%)								(57%)	(43%)
Czech Republic	3	3		8	7	1	6	5	1	762	85	677	3,110	581	2,529	63	33	30	1		1	65	11	54	4,018	725	3,293
		(100%)			(88%)	(13%)		(83%)	(17%)		(11%)	(89%)		(19%)	(81%)		(52%)	(48%)			(100%)		(17%)	(83%)		(18%)	(82%)
Democratic People's Republic of Korea							9	1	8	12		12	10		10										31	1	30
								(11%)	(89%)			(100%)			(100%)											(3%)	(97%)
Democratic Republic of the Congo	1		1	1		1	9	8	1										11	5	6	16	7	9	38	20	18
			(100%)			(100%)		(89%)	(11%)											(45%)	(55%)		(44%)	(56%)		(53%)	(47%)
Denmark	8	6	2	7	5	2	9	6	3	20	8	12	258	121	137	1,533	250	1,283				2,220	122	2,098	4,055	518	3,537
		(75%)	(25%)		(71%)	(29%)		(67%)	(33%)		(40%)	(60%)		(47%)	(53%)		(16%)	(84%)					(5%)	(95%)		(13%)	(87%)
Djibouti	1		1																1		1				2		2
			(100%)																		(100%)						(100%)
Dominica							3	2	1							1		1	3	1	2				7	3	4
								(67%)	(33%)								(100%)			(33%)	(67%)					(43%)	(57%)

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas		
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)
Country/territory:																											
Dominican Republic	6	4 (67%)	2 (33%)	2	2 (100%)		19	14 (74%)	5 (26%)	17	4 (24%)	13 (76%)	15	6 (40%)	9 (60%)	10	2 (20%)	8 (80%)	15	4 (27%)	11 (73%)				84	34 (40%)	50 (60%)
Ecuador	3	2 (67%)	1 (33%)	1	1 (100%)		10	10 (100%)		1		1 (100%)				1	1 (100%)		10	9 (90%)	1 (10%)	80	32 (40%)	48 (60%)	106	55 (52%)	51 (48%)
Egypt	5		5 (100%)				2	2 (100%)		2	1 (50%)	1 (50%)	2	1 (50%)	1 (50%)	3	1 (33%)	2 (67%)	9	8 (89%)	1 (11%)	7	1 (14%)	6 (86%)	30	14 (47%)	16 (53%)
El Salvador							1	1 (100%)														62	42 (68%)	20 (32%)	63	43 (68%)	20 (32%)
Equatorial Guinea				1	1 (100%)		3	3 (100%)		2		2 (100%)	3	1 (33%)	2 (67%)							4	2 (50%)	2 (50%)	13	7 (54%)	6 (46%)
Eritrea													3	3 (100%)											3	3 (100%)	
Estonia	29	25 (86%)	4 (14%)	315	174 (55%)	141 (45%)				1,103	129 (12%)	974 (88%)	462	278 (60%)	184 (40%)	805	130 (16%)	675 (84%)	508	218 (43%)	290 (57%)	8,950	1,630 (18%)	7,320 (82%)	12,172	2,584 (21%)	9,588 (79%)
Ethiopia							15	15 (100%)					8	8 (100%)				18	13 (72%)	5 (28%)	3		3 (100%)	44	36 (82%)	8 (18%)	
Falklands Islands	19	1 (5%)	18 (95%)										13	3 (23%)	10 (77%)							1		1 (100%)	33	4 (12%)	29 (88%)
Fiji	10	3 (30%)	7 (70%)				2	1 (50%)	1 (50%)				3	1 (33%)	2 (67%)	4	1 (25%)	3 (75%)	16		16 (100%)	103	7 (7%)	96 (93%)	138	13 (9%)	125 (91%)
Finland	20	10 (50%)	10 (50%)	6	6 (100%)		34	15 (44%)	19 (56%)	2		2 (100%)	9	3 (33%)	6 (67%)				112	48 (43%)	64 (57%)	9,702	1,363 (14%)	8,339 (86%)	9,885	1,445 (15%)	8,440 (85%)
France	38	22 (58%)	16 (42%)				5	5 (100%)		13	3 (23%)	10 (77%)	1,472	532 (36%)	940 (64%)	51	44 (86%)	7 (14%)				115	23 (20%)	92 (80%)	1,694	629 (37%)	1,065 (63%)
French Guiana				1	1 (100%)		1	1 (100%)					22	14 (64%)	8 (36%)	6	5 (83%)	1 (17%)				11	4 (36%)	7 (64%)	41	25 (61%)	16 (39%)
French Polynesia													8	2 (25%)	6 (75%)										8	2 (25%)	6 (75%)
Gabon													3	3 (100%)								19	12 (63%)	7 (37%)	22	15 (68%)	7 (32%)
Gambia							2	2 (100%)					1	1 (100%)								6	5 (83%)	1 (17%)	9	8 (89%)	1 (11%)
Georgia	19	11 (58%)	8 (42%)				11	10 (91%)	1 (9%)	10	5 (50%)	5 (50%)	18	9 (50%)	9 (50%)	2	2 (100%)					1		1 (100%)	61	37 (61%)	24 (39%)
Germany							14	12 (86%)	2 (14%)				8,633	2,441 (28%)	6,192 (72%)	8,660	1,857 (21%)	6,803 (79%)							17,307	4,310 (25%)	12,997 (75%)
Ghana	1		1 (100%)				7	7 (100%)					3		3 (100%)				5	5 (100%)		286	49 (17%)	237 (83%)	302	61 (20%)	241 (80%)
Gibraltar																1	1 (100%)								1	1 (100%)	
Greece	7	7 (100%)					21	21 (100%)		70	25 (36%)	45 (64%)	619	295 (48%)	324 (52%)	4	4 (100%)		52	49 (94%)	3 (6%)	57	29 (51%)	28 (49%)	830	430 (52%)	400 (48%)
Greenland				7	7 (100%)		1	1 (100%)		3		3 (100%)	1	1 (100%)											12	2 (17%)	10 (83%)

Country/territory:	IUCN Category: Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas					
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)			
Grenada																1	1	(100%)	1	1	(100%)	2	1	1						
Guadeloupe							1	1	(100%)				68	14	54	1	1	(100%)							70	16	54			
Guam													9		9	1		1	(100%)			6		6	1		1	17		17
Guatemala							13	12	1	13	10	3	31	20	11	125	100	25	6	6	(100%)	61	43	18	249	191	58			
Guinea	1	1	(100%)				1	1	(100%)													100	16	84	102	18	84			
Guinea-Bissau							2	2	(100%)													7	5	2	9	7	2			
Guyana							1		1	(100%)			1		1	(100%)						1		1	(100%)			3		3
Haiti							2	2	(100%)							5	2	3				1	1	(100%)	8	5	3			
Honduras							17	9	8	7		7	37	8	29	1		1				17	3	14	79	20	59			
Hong Kong													19	4	15	19	4	15				66	4	62	104	12	92			
Hungary							5	5	(100%)				91	18	73	37	17	20									133	40	93	
Iceland	2	2	(100%)	2	2	(100%)	7	4	3	46	8	38	18	9	9	30	9	21	15	13	2				120	47	73			
India	1	1	(100%)	2	1	1	85	65	20				447	169	278				3	1	2	21	5	16	559	242	317			
Indonesia	102	29	73	7	2	5	37	30	7	2		2	46	13	33	52	12	40	72	34	38	208	45	163	526	165	361			
Iran (Islamic Republic of)							16	10	6	16	2	14	35	23	12	59	29	30				19	8	11	145	72	73			
Ireland							6	4	2				232	47	185							2	1	1	240	52	188			
Israel							1		1	1	1	109	42	67	2	1	1					158	56	102	271	100	171			
Italy	116	46	70				24	21	3	55	13	42	491	162	329	183	32	151				5	1	4	874	275	599			
Jamaica													8	4	4	1	1	(100%)	117	58	59	9	3	6	135	66	69			
Japan	6	5	1	25	15	10	47	21	26				19	15	4	145	60	85				36	17	19	278	133	145			
Jersey																3	3	(100%)	1	1	(100%)				4	4	(100%)			
Jordan													6	5	1	1	1	(100%)				2	2	(100%)	9	8	1			

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas		
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)
Kazakhstan	8	5 (63%)	3 (38%)				3	2 (67%)	1 (33%)				62	11 (18%)	51 (82%)				5	3 (60%)	2 (40%)	78	21 (27%)	57 (73%)			
Kenya							36	25 (69%)	11 (31%)				4	1 (25%)	3 (75%)			13	6 (46%)	7 (54%)	293	71 (24%)	222 (76%)	346	103 (30%)	243 (70%)	
Kiribati	5		5 (100%)							6		6 (100%)				1		1 (100%)	1		1 (100%)	2		2 (100%)	15		15 (100%)
Kuwait							1	1 (100%)					7	4 (57%)	3 (43%)	3	1 (33%)	2 (67%)				11	6 (55%)	5 (45%)			
Kyrgyzstan	6	1 (17%)	5 (83%)				6		6 (100%)				16	3 (19%)	13 (81%)				1		1 (100%)	29	4 (14%)	25 (86%)			
Lao People's Democratic Republic																		21	21 (100%)		4	2 (50%)	2 (50%)	25	23 (92%)	2 (8%)	
Latvia				4	2 (50%)	2 (50%)	45	18 (40%)	27 (60%)	355	125 (35%)	230 (65%)	299	73 (24%)	226 (76%)	10	5 (50%)	5 (50%)				713	223 (31%)	490 (69%)			
Lebanon							1	1 (100%)											10	4 (40%)	6 (60%)	11	5 (45%)	6 (55%)			
Lesotho													1	1 (100%)								1		1 (100%)			
Liberia																			2	2 (100%)		2		2 (100%)			
Libya													3	1 (33%)	2 (67%)				5		5 (100%)	8	1 (13%)	7 (88%)			
Liechtenstein				9	2 (22%)	7 (78%)							30	1 (3%)	29 (97%)	1	1 (100%)					40	4 (10%)	36 (90%)			
Lithuania	6	4 (67%)	2 (33%)				5	4 (80%)	1 (20%)				275	62 (23%)	213 (77%)	32	18 (56%)	14 (44%)	28	28 (100%)		346	116 (34%)	230 (66%)			
Luxembourg				23	6 (26%)	17 (74%)	2		2 (100%)													25	6 (24%)	19 (76%)			
Madagascar	5	5 (100%)					21	19 (90%)	2 (10%)				20	19 (95%)	1 (5%)			8	6 (75%)	2 (25%)	35	10 (29%)	25 (71%)	89	59 (66%)	30 (34%)	
Malawi							5	5 (100%)					4	2 (50%)	2 (50%)						87	33 (38%)	54 (62%)	96	40 (42%)	56 (58%)	
Malaysia	146	35 (24%)	111 (76%)				70	18 (26%)	52 (74%)	2	1 (50%)	1 (50%)	17	8 (47%)	9 (53%)	7	2 (29%)	5 (71%)	3	1 (33%)	2 (67%)	445	52 (12%)	393 (88%)	690	117 (17%)	573 (83%)
Maldives																					25		25 (100%)	25		25 (100%)	
Mali							5	2 (40%)	3 (60%)				16	4 (25%)	12 (75%)				10		10 (100%)	31	6 (19%)	25 (81%)			
Malta	9	5 (56%)	4 (44%)	75	21 (28%)	54 (72%)	6	6 (100%)		52	11 (21%)	41 (79%)	6		6 (100%)	1	1 (100%)		1	1 (100%)		28	2 (7%)	26 (93%)	178	47 (26%)	131 (74%)
Marshall Islands	1		1 (100%)																1		1 (100%)	1		1 (100%)	3		3 (100%)
Martinique	2	2 (100%)		1		1 (100%)							43	25 (58%)	18 (42%)	1	1 (100%)				8		8 (100%)	55	28 (51%)	27 (49%)	

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas			
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	
Country/territory:																												
Mauritania							2	2														1	1		3	2	1	
								(100%)															(100%)					
Mauritius							1	1				6	5	1								18	8	10	25	14	11	
								(100%)					(83%)	(17%)									(44%)	(56%)		(56%)	(44%)	
Mayotte												16	2	14								3	1	2	19	3	16	
													(13%)	(88%)									(33%)	(67%)		(16%)	(84%)	
Mexico	15		15				46	16	30	7	1	6							63	16	47	690	150	540	821	183	638	
			(100%)					(35%)	(65%)		(14%)	(86%)								(25%)	(75%)		(22%)	(78%)		(22%)	(78%)	
Micronesia (Federated States of)												8	1	7	2		2	1				11		11	22	1	21	
													(13%)	(88%)		(100%)		(100%)					(100%)		(5%)	(95%)		
Moldova	5	4	1							22	2	20	16		16	20	2	18							63	8	55	
		(80%)	(20%)								(9%)	(91%)			(100%)	(10%)	(90%)									(13%)	(87%)	
Monaco												3		3											3		3	
														(100%)													(100%)	
Mongolia	3	2	1	9	7	2	16	13	3	22	7	15										1	1		51	30	21	
		(67%)	(33%)		(78%)	(22%)		(81%)	(19%)		(32%)	(68%)											(100%)			(59%)	(41%)	
Montenegro							4	2	2				2	1	1	1		1							7	3	4	
								(50%)	(50%)					(50%)	(50%)			(100%)								(43%)	(57%)	
Montserrat	1		1				2		2	2		2				1		1	6	1	5	6	1	5	18	2	16	
			(100%)						(100%)		(100%)						(100%)		(17%)	(83%)			(17%)	(83%)		(11%)	(89%)	
Morocco																						43	21	22	43	21	22	
																							(49%)	(51%)		(49%)	(51%)	
Mozambique							5	3	2				8	4	4	2	1	1	3	1	2	29	6	23	47	15	32	
								(60%)	(40%)					(50%)	(50%)		(50%)	(50%)		(33%)	(67%)		(21%)	(79%)		(32%)	(68%)	
Myanmar							3	3					25	10	15				2		2	14	2	12	44	15	29	
								(100%)						(40%)	(60%)						(100%)		(14%)	(86%)		(34%)	(66%)	
Namibia							9	7	2	2	1	1	1	1		3		3	1	1		151	44	107	167	54	113	
								(78%)	(22%)		(50%)	(50%)		(100%)				(100%)		(100%)			(29%)	(71%)		(32%)	(68%)	
Nepal							9	9					3	3					7	7					19	19		
								(100%)						(100%)						(100%)						(100%)		
Netherlands							20	18	2				285	140	145											305	158	147
								(90%)	(10%)					(49%)	(51%)											(52%)	(48%)	
New Caledonia	2	1	1				6	2	4	2		2	28	7	21	10		10	1		1	22	2	20	71	12	59	
		(50%)	(50%)					(33%)	(67%)			(100%)		(25%)	(75%)			(100%)			(100%)		(9%)	(91%)		(17%)	(83%)	
New Zealand	149	2	147	4		4	14		14	3,247	3	3,244	46		46	45		45	20	1	19	402		402	3,927	6	3,921	
		(1%)	(99%)			(100%)			(100%)		(0%)	(100%)			(100%)			(100%)		(5%)	(95%)			(100%)		(0%)	(100%)	
Nicaragua	1	1					2	1	1	2	2		46	18	28				1	1		31	18	13	83	41	42	
		(100%)						(50%)	(50%)		(100%)			(39%)	(61%)				(100%)				(58%)	(42%)		(49%)	(51%)	
Niger	1	1					1	1					5	3	2										7	5	2	
		(100%)						(100%)						(60%)	(40%)											(71%)	(29%)	
Nigeria	5		5				8	6	2				14	5	9							945	48	897	972	59	913	
			(100%)					(75%)	(25%)					(36%)	(64%)								(5%)	(95%)		(6%)	(94%)	
Niue										2		2							3		3				5		5	
											(100%)									(100%)							(100%)	

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas					
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)			
Country/territory:																														
Northern Mariana Islands	5		5 (100%)									2	1 (50%)	1 (50%)	2		2 (100%)		2		2 (100%)	11	1 (9%)	10 (91%)						
Norway	2,040	94 (5%)	1,946 (95%)	1	1 (100%)	34	6 (18%)	28 (82%)	91	2 (2%)	89 (98%)	229	31 (14%)	198 (86%)	138	17 (12%)	121 (88%)		267	16 (6%)	251 (94%)	2,800	166 (6%)	2,634 (94%)						
Oman						2	2 (100%)					3	3 (100%)		1		1 (100%)					6	5 (83%)	1 (17%)						
Pakistan						6	3 (50%)	3 (50%)				63	19 (30%)	44 (70%)	5	3 (60%)	2 (40%)	2	2 (100%)	77	15 (19%)	62 (81%)	153	40 (26%)	113 (74%)					
Palau						10	2 (20%)	8 (80%)	1	1 (100%)	2	1 (50%)	1 (50%)	1		1 (100%)	3	3 (100%)	9		9 (100%)	26	3 (12%)	23 (88%)						
Panama						12	11 (92%)	1 (8%)	2	1 (50%)	1 (50%)	6	4 (67%)	2 (33%)	1		1 (100%)	1	1 (100%)	61	30 (49%)	31 (51%)	83	47 (57%)	36 (43%)					
Papua New Guinea												1		1 (100%)			4	4 (100%)	60	2 (3%)	58 (97%)	65	2 (3%)	63 (97%)						
Paraguay						11	6 (55%)	5 (45%)	3		3 (100%)	10	6 (60%)	4 (40%)	1	1 (100%)		3	2 (67%)	1 (33%)	5	4 (80%)	1 (20%)	33	19 (58%)	14 (42%)				
Peru						12	12 (100%)		12	6 (50%)	6 (50%)	2	2 (100%)		2	1 (50%)	1 (50%)	53	26 (49%)	27 (51%)	93	34 (37%)	59 (63%)	174	81 (47%)	93 (53%)				
Philippines				4	4 (100%)	52	28 (54%)	24 (46%)	4	2 (50%)	2 (50%)	19	11 (58%)	8 (42%)	44	16 (36%)	28 (64%)	236	33 (14%)	203 (86%)	164	11 (7%)	153 (93%)	523	101 (19%)	422 (81%)				
Poland						16	15 (94%)	1 (6%)				1,490	527 (35%)	963 (65%)	124	74 (60%)	50 (40%)		233	45 (19%)	188 (81%)	1,863	661 (35%)	1,202 (65%)						
Portugal	28	24 (86%)	4 (14%)	6	6 (100%)	1	1 (100%)		34	12 (35%)	22 (65%)	60	48 (80%)	12 (20%)	52	35 (67%)	17 (33%)	32	25 (78%)	7 (22%)	3	2 (67%)	1 (33%)	216	153 (71%)	63 (29%)				
Puerto Rico												17	10 (59%)	7 (41%)			1	1 (100%)	39	27 (69%)	12 (31%)	57	38 (67%)	19 (33%)						
Qatar												1		1 (100%)					3	1 (33%)	2 (67%)	4	1 (25%)	3 (75%)						
Republic of Korea	9		9 (100%)			15		15 (100%)	1		1 (100%)	130	11 (8%)	119 (92%)	130	3 (2%)	127 (98%)		3		3 (100%)	288	14 (5%)	274 (95%)						
Réunion	5	1 (20%)	4 (80%)			1	1 (100%)					24	2 (8%)	22 (92%)	1	1 (100%)			6		6 (100%)	37	5 (14%)	32 (86%)						
Romania	70	59 (84%)	11 (16%)			13	11 (85%)	2 (15%)	211	87 (41%)	124 (59%)	608	285 (47%)	323 (53%)	15	14 (93%)	1 (7%)					917	456 (50%)	461 (50%)						
Russian Federation	20	13 (65%)	7 (35%)			9	4 (44%)	5 (56%)	422	41 (10%)	381 (90%)	128	24 (19%)	104 (81%)	13		13 (100%)	66	7 (11%)	59 (89%)		658	89 (14%)	569 (86%)						
Rwanda						2	2 (100%)					3	3 (100%)						1		1 (100%)	6	5 (83%)	1 (17%)						
Saint Barthelemy												4	3 (75%)	1 (25%)								4	3 (75%)	1 (25%)						
Saint Helena	4	1 (25%)	3 (75%)			2	1 (50%)	1 (50%)	2	1 (50%)	1 (50%)	5	5 (100%)		5	3 (60%)	2 (40%)	1	1 (100%)		1	1 (100%)	20	13 (65%)	7 (35%)					
Saint Kitts and Nevis						1		1 (100%)											1		1 (100%)	2		2 (100%)						

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas					
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)			
Country/territory:																														
Saint Lucia				1	1	2				1	1	12	4	8					18	15	3	18	8	10	52	27	25			
					(100%)																									
Saint Martin												15	3	12								1		1	16	3	13			
Saint Pierre et Miquelon												1		1								6		6	7		7			
Samoa						3	2	1				4		4	1		1		3		3	68		68	79	2	77			
							(67%)	(33%)						(100%)			(100%)									(3%)	(97%)			
Saudi Arabia						6	3	3	1	1	1	6	2	4	6	6	6		8	3	5	4	2	2	31	11	20			
							(50%)	(50%)			(100%)			(33%)	(67%)		(100%)			(38%)	(63%)		(50%)	(50%)		(35%)	(65%)			
Senegal						6	6					6	6						1		1	100	16	84	113	28	85			
							(100%)							(100%)									(16%)	(84%)		(25%)	(75%)			
Serbia	4	1	3			2	2		32	4	28	15	8	7	11	6	5		2	1	1	29	12	17	95	34	61			
		(25%)	(75%)				(100%)			(13%)	(88%)		(53%)	(47%)		(55%)	(45%)			(50%)	(50%)		(41%)	(59%)		(36%)	(64%)			
Seychelles	4	3	1	1	1	7	4	3											7	1	6	1		1	20	9	11			
		(75%)	(25%)		(100%)		(57%)	(43%)												(14%)	(86%)			(100%)		(45%)	(55%)			
Sierra Leone						5	5					1		1					1	1		35	4	31	42	10	32			
							(100%)							(100%)						(100%)			(11%)	(89%)		(24%)	(76%)			
Singapore						3	2	1	1		1	2	1	1								1		1	7	3	4			
							(67%)	(33%)			(100%)			(50%)	(50%)									(100%)		(43%)	(57%)			
Slovakia				603	351	252	9	9		289	105	166	39	127	14	12	2					39	22	17	1,120	538	582			
					(58%)	(42%)		(100%)			(36%)	(64%)		(23%)	(77%)		(86%)	(14%)					(56%)	(44%)		(48%)	(52%)			
Slovenia	6	6		50	31	19	1	1	1,174	259	915	1	1		42	28	14					683	212	471	1,957	538	1,419			
		(100%)			(62%)	(38%)		(100%)			(22%)	(78%)		(100%)			(67%)	(33%)					(31%)	(69%)		(27%)	(73%)			
Solomon islands						1		1							2		2		2		2	89	2	87	94	2	92			
								(100%)									(100%)						(2%)	(98%)		(2%)	(98%)			
Somalia												1		1					3	1	2	3	1	2	7	2	5			
														(100%)						(33%)	(67%)		(33%)	(67%)		(29%)	(71%)			
South Africa	3	1	2	3	2	1	39	25	14	1	1	199	82	117	2	2						695	234	461	942	344	598			
		(33%)	(67%)		(67%)	(33%)		(64%)	(36%)		(100%)			(41%)	(59%)		(100%)						(34%)	(66%)		(37%)	(63%)			
South Georgia and the South Sandwich Islands	2	2				2	1	1											1	1		1	1		6	5	1			
		(100%)						(50%)	(50%)											(100%)			(100%)			(83%)	(17%)			
South Sudan						5	5					1		1					8	3	5				14	8	6			
							(100%)							(100%)						(38%)	(63%)					(57%)	(43%)			
Spain	12	4	8	9	7	2	12	10	2			134	81	53	149	89	60					170	79	91	486	270	216			
		(33%)	(67%)		(78%)	(22%)		(83%)	(17%)					(60%)	(40%)		(60%)	(40%)					(46%)	(54%)		(56%)	(44%)			
Sri Lanka	17	10	7			16	9	7				43	16	27								158	19	139	234	54	180			
		(59%)	(41%)				(56%)	(44%)						(37%)	(63%)								(12%)	(88%)		(23%)	(77%)			
St Vincent and the Grenadines												6	1	5								24	5	19	30	6	24			
														(17%)	(83%)								(21%)	(79%)		(20%)	(80%)			
Sudan						3	1	2				1		1					3		3	2		2	9	1	8			
							(33%)	(67%)						(100%)							(100%)			(100%)		(11%)	(89%)			
Suriname						2	2					10	8	2					2	2		1	1		15	13	2			
							(100%)							(80%)	(20%)					(100%)			(100%)			(87%)	(13%)			

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas			
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	
Country/territory:																												
Svalbard and Jan Mayen Islands	23	17 (74%)	6 (26%)				11	7 (64%)	4 (36%)	1	1 (100%)								1		1 (100%)	36	25 (69%)	11 (31%)				
Swaziland												2	2 (100%)					2	1 (50%)	1 (50%)	3		3 (100%)	7	3 (43%)	4 (57%)		
Sweden	2,218	72 (3%)	2,146 (97%)	123	23 (19%)	100 (81%)	21	6 (29%)	15 (71%)	321	26 (8%)	295 (92%)	1,046	105 (10%)	941 (90%)	307	69 (22%)	238 (78%)				8,896	398 (4%)	8,498 (96%)	12,932	699 (5%)	12,233 (95%)	
Switzerland	1	1 (100%)								25	4 (16%)	21 (84%)	4,457	1,019 (23%)	3,438 (77%)	215	71 (33%)	144 (67%)							4,698	1,095 (23%)	3,603 (77%)	
Syria																			12	3 (25%)	9 (75%)	12	3 (25%)	9 (75%)	12	3 (25%)	9 (75%)	
Taiwan	16	8 (50%)	8 (50%)				7	5 (71%)	2 (29%)				4		4 (100%)				17	7 (41%)	10 (59%)	44	20 (45%)	24 (55%)				
Tajikistan	3	2 (67%)	1 (33%)				2	1 (50%)	1 (50%)				10	4 (40%)	6 (60%)										15	7 (47%)	8 (53%)	
Thailand	56	27 (48%)	29 (52%)				121	50 (41%)	71 (59%)	13	3 (23%)	10 (77%)													190	80 (42%)	110 (58%)	
The former Yugoslav Republic of Macedonia	2	2 (100%)					3	2 (67%)	1 (33%)	49	12 (24%)	37 (76%)	7	3 (43%)	4 (57%)										61	19 (31%)	42 (69%)	
Timor-Leste																1	1 (100%)		9	5 (56%)	4 (44%)	10	6 (60%)	4 (40%)	10	6 (60%)	4 (40%)	
Togo							3	2 (67%)	1 (33%)				6		6 (100%)				81	3 (4%)	78 (96%)	90	5 (6%)	85 (94%)	90	5 (6%)	85 (94%)	
Tokelau							1		1 (100%)										2		2 (100%)	3		3 (100%)	3		3 (100%)	
Tonga							3		3 (100%)				5		5 (100%)	2		2 (100%)	3		3 (100%)	8		8 (100%)	21		21 (100%)	
Trinidad and Tobago	2		2 (100%)				1	1 (100%)		5		5 (100%)	7	1 (14%)	6 (86%)				50	15 (30%)	35 (70%)	65	17 (26%)	48 (74%)	65	17 (26%)	48 (74%)	
Tunisia							5	4 (80%)	1 (20%)				2		2 (100%)				31	12 (39%)	19 (61%)	38	16 (42%)	22 (58%)	38	16 (42%)	22 (58%)	
Turkey	12	3 (25%)	9 (75%)				23	15 (65%)	8 (35%)	2		2 (100%)	26	17 (65%)	9 (35%)	7	2 (29%)	5 (71%)	8	2 (25%)	6 (75%)	208	21 (10%)	187 (90%)	286	60 (21%)	226 (79%)	
Turkmenistan	8	8 (100%)											8	7 (88%)	1 (13%)				2		2 (100%)	18	17 (94%)	1 (6%)	18	17 (94%)	1 (6%)	
Turks and Caicos islands										2		2 (100%)	3	2 (67%)	1 (33%)	4		4 (100%)				24	8 (33%)	16 (67%)	33	10 (30%)	23 (70%)	
Tuvalu																			1		1 (100%)	4		4 (100%)	5		5 (100%)	
U.K. of Great Britain and Northern Ireland													8,858	1,591 (18%)	7,267 (82%)	156	104 (67%)	52 (33%)				173	31 (18%)	142 (82%)	9,187	1,726 (19%)	7,461 (81%)	
Uganda							10	10 (100%)		11	8 (73%)	3 (27%)	1	1 (100%)					13	8 (62%)	5 (38%)	661	70 (11%)	591 (89%)	696	97 (14%)	599 (86%)	
Ukraine	17	8 (47%)	9 (53%)				8	4 (50%)	4 (50%)	3,053	50 (2%)	3,003 (98%)	2,069	179 (9%)	1,890 (91%)	19	4 (21%)	15 (79%)				31	12 (39%)	19 (61%)	5,197	257 (5%)	4,940 (95%)	

IUCN Category:	Ia			Ib			II			III			IV			V			VI			Not Reported			Total national-level protected areas		
	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)	Total PAs	Total PAs overlapping with KBAs (%)	Total PAs with no overlap (%)
United Arab Emirates							1	1	(100%)										17	5	12	18	6	12			
United Republic of Tanzania				9	7	2	15	13	2	1	1		67	55	12				22	19	3	481	225	256	595	320	275
United States of America	1,075	24	1,051	866	85	781	229	21	208	505	16	489	6,968	247	6,721	11,270	350	10,920	525	73	452	574	59	515	22,012	875	21,137
United States Virgin Islands	1		1				1	1	(100%)				3	2	1	1	1	(100%)				13	4	9	19	8	11
Uruguay							4	3	1							4	3	1				7	6	1	15	12	3
Uzbekistan	8	6	2				2	1	1				3	1	2							2		2	15	8	7
Vanuatu										1		1						4		4	29		29	34		34	
Venezuela							43	37	6	33	9	24	8	4	4	54	28	26	49	8	41	44	9	35	231	95	136
Viet Nam							15	12	3				45	20	25	27	5	22				29	7	22	116	44	72
Wallis and Futuna	1		1																						1		1
Yemen																			3	1	2	3	1	2	3	1	2
Zambia							19	17	2	16	3	13	1		1			36	28	8	553	49	504	625	97	528	
Zimbabwe				1	1	(100%)	10	8	2	2	1	1	20	3	17	14	1	13	19	9	10	174	45	129	240	68	172

Annex

Disclaimer and Release Statement

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