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Supplementary Information

Table 1. Area protected by PAs and percent share of the total area protected for case study countries

Country	Area Protected PAs (Km ²)	Protected area protected by PPAs (%)	Area protected by state PAs (Km ²)	Protected area protected by state PAs (%)	Area protected by co-managed PAs (Km ²)	Protected area protected by co-managed PAs (%)	Area protected by community governed protected area (Km ²)	Protected area protected by community governed PAs (%)	Land protected by any type of PA (%)
Australia	87,350	6.4	617,055	45	-	-	666,324	49	18
Belize	1,254	16	4,503	56	2,211	27	139	1.7	35
Brazil	4,207	0.2	1,428,704	59	-	-	988,363	41	28
Canada	225	0.02	903,497	96	40,058	4.2	973	0.10	9
Chile	12,550	9.1	122,848	89	2122	1.5	-	-	18
Colombia	1,220	0.8	154,390	99	-	-	-	-	14
Finland	548	1.1	48,501	99	-	-	-	-	15
Guatemala	3,851	22	12,328	70	1,411	8.02	5	0.03	16
Honduras	13	0.1	12,786	100	-	-	-	-	11
Kenya	3,644	4.4	49,053	60	-	-	29,411	36	14
Mexico	3,365	1.4	244,511	98	507	0.2	-	-	13
Namibia	53,629	15	143,232	40	-	-	163,926	45	44
Peru	29,388	14	177,041	85	80	0.04	2,647	1.3	16
South Africa	24,219	25	72,134	74	-	-	592	0.61	8
USA	21,123	1.8	629,481	54	525,889	45	-	-	12
Total	246,586	3.4	4,620,065	63	572,278	7.8	1,852,381	25	16

Table 2: KBA analysis

Country	Total Area of KBAs (Km ²)	KBA protected by state PAs (%)	State PAs within KBAs (%)	KBA protected by co-managed PAs (%)	Co-managed PAs area within KBAs (%)	KBA protected by PPAs (%)	PPAs area within a KBAs (%)	KBA protected by community governed PAs (%)	Community governed PAs within KBAs (%)
Australia	459,112	27	20	0.0	0.0	4.9	26	4.1	2.8
Belize	29,990	14	95	7.6	100	4.1	99	0.5	100
Brazil	1,002,749	50	35	-	-	0.1	16	7.7	7.8
Canada	354,756	34	13	0.0	0.4	0.0	3.6	-	0.0
Chile	53,720	60	26	1.5	39	4.5	19	-	-
Colombia	185,593	15	18	-	-	0.1	13	-	-
Finland	28,045	66	38	-	-	0.0	2.2	-	-
Guatemala	54,088	20	87	2.6	98	6.9	98	0	0.0
Honduras	23,852	42	78	-	-	0	1.3	-	-
Kenya	73,393	46	69	-	-	1.0	20	4.2	10
Mexico	416,268	22	38	0.0	32	0.3	41	-	-
Namibia	105,883	91	67	-	-	0	0.0	7.1	4.6
Peru	231,420	60	78	0.0	99	1.4	11	0.4	33
USA	828,124	3.01	4.01	4.6	7.3	0.1	3.3	-	-
South Africa	218,004	30	35	0.3	0.0	5.2	53	-	-
Total	4,064,997	32	28	1.1	1.01	1.2	20	2.6	5.8

Table 3: Percentage of area in different Human Footprint (HF) categories within PPAs and 1 km, 5 km and 10 km buffers surrounding PPAs

HF	Percentage of total area with each HF category			
	PPAs	1 km	5 km	10 km
0	25	8.6	6.5	6.9
1 – 2	28	25	22	30
3 – 5	28	38	38	33
6 – 11	14	20	23	20
12 – 50	5	8	10	9.8

Table 4: Number and percentage of PPAs within 0 m, 30 m, 100 m and 500 m of a PA under state, shared or community governance regime

Country	No. of PPAs	No. of PPAs within 0 m of a PA under state, community or co-managed governance regime	Percent of PPAs within 0m of a PA under state, community or co-managed governance regime	No. of PPAs within 30 m of a PA under state, community or co-managed governance regime	Percent of PPAs within 30 m of a PA under state, community or co-managed governance regime	No. of PPAs within 100 m of a PA under state, community or co-managed governance regime	Percent of PPAs within 100 m of a PA under state, community or co-managed governance regime	No. of PPAs within 500 m of a PA under state, community or co-managed governance regime	Percent of PPAs within 500 m of a PA under state, community or co-managed governance regime
Australia	1616	444	27	485	30	514	32	614	38
Belize	10	6	60	6	60	6	60	8	80
Brazil	675	66	9.9	72	11	77	11	96	14
Canada	388	0	0.0001	0	0.0001	0	0.0001	0	0.0002
Chile	287	22	7.7	22	7.7	23	8.0	28	9.7
Colombia	580	25	4.3	29	5.0	34	6.0	55	9.4
Finland	4293	716	17	795	19	838	20	1031	24
Guatemala	149	27	18	28	19	29	19	33	22
Honduras	11	0	0.00	0	0.00	1	9.01	1	9.1
Kenya	28	13	46	13	46	14	50	14	50
Mexico	342	10	2.9	11	3.2	13	4	14	4.1
Namibia	27	12	44	12	44	12	44	12	44
Peru	94	10	11	13	14	13	14	16	17
South Africa	927	124	16	166	18	171	19	178	20
USA	8130	461	5.7	562	7.0	652	8	1031	13
Total	17557	1960	11	2214	13	2397	14	3131	18

Table 5. Percentage of protected connected land including or excluding PPAs and change in protected connected land at a dispersal distance of 10 km for case study countries

Country	Percent of protected connected land excluding PPAs	Percent of protected connected land including PPAs	Percent change in the area of protected connected land at 10 km dispersal
Australia	6.4	6.6	0.9
Belize	27	30	11
Brazil	13	13	0.008
Canada	0.12	0.12	0.0001
Chile	7.1	7.1	1.2
Colombia	0.6	0.6	0.02
Finland	7.2	7.4	2.4
Guatemala	4.6	5.6	23
Honduras	6.0	6.0	0.02
Kenya	6.6	8.5	29
Mexico	3.0	3.0	0.08
Namibia	32	36	12
Peru	5.0	5.3	6.7
South Africa	1.9	2.2	20
USA	0.88	0.88	0.06
Total	8.64	9.4	7.05

Table 6: Percent change in the area of connected land at 1 km, 10 km, 30 km and 100 km dispersal distances when including PPAs

Country	Percent change in the area of connected land at 1km dispersal	Percent change in the area of connected land at 10km dispersal	Percent change in the area of connected land at 30km dispersal	Percent change in the area of connected land at 100km dispersal
Australia	0.4	0.9	1.3	1.5
Belize	3.8	11	12	12
Brazil	0.006	0.01	0.01	0.3
Canada	0.00001	0.0001	0.0003	0.0003
Chile	0.8	1.2	5.2	9.2
Colombia	0.07	0.02	1.6	1.8
Finland	0.07	2.44	1.02	1.1
Guatemala	9.3	23	24	25
Honduras	0.0002	0.02	0.03	0.07
Kenya	24	29	36	49
Mexico	0.02	0.08	0.2	8.4
Namibia	12	12	12	12
Peru	5	6.7	7.2	20
South Africa	14	20	28	33
USA	0.04	0.06	0.1	1.2
Average	4.5	7.06	8.6	11.65

Table 7. Additional PPA boundaries

Country	No. of additional boundaries found outside of the WDPA	Area (Km ²)	Source	Legitimacy
Australia	60	126	Collaborative Australian Protected Area Database (CAPAD) http://www.environment.gov.au/land/nrs/science/capad/2016	National government led reporting database for Australian protected areas. Every two years information on PAs is collected from state and territory governments and other protected areas managers.
Belize	2	6	Biodiversity and Environmental Resource Data System of Belize (BERDS) http://www.biodiversity.bz/	Non-governmental organizations recording protected areas
Brazil	465	3,568	Chico Mendes Institute for Biodiversity Conservation (ICMBio)	The Chico Mendes Institute for Biodiversity Conservation is a special regime municipality. Created on August 28, 2007, by Law 11,516, ICMBio is linked to the Ministry of Environment and is part of the National Environment System.
Canada	20	3.6	Conservation Areas Reporting and Tracking System (CARTS) https://www.ccea.org/carts/	A geodatabase which contains data from all federal, provincial and territorial jurisdictions in Canada, which update their protected areas data to CARTS on an annual basis.
Chile	274	12,893	Asociacion de Iniciativas de Conservacion en Areas Privada y de Pueblos Originarios http://asiconservachile.cl/acch/	Network of private land owners across Chile
Colombia	54	48	Parques Nacionales Naturales de Colombia (RUNAP)	National government agency which records protected areas

Finland	0	0		
Guatemala	46	125	Consejo Nacional de Areas Protegias (CONAP)	National Council of Protected Areas which records and tracks protected areas within Guatemala
			http://www.conap.gob.gt/AreasProtegidas.aspx	
Honduras	3	2.1	Department of Protected Areas Institute of Forest Conservation (ICF)	National government agency recording protected areas in Honduras
			https://portalunico.iaip.gob.hn/portal/index.php?portal=349	
Kenya	17	2,296	Data obtained from in country expert Board member of The Center for Sustainable Dryland Ecosystems and Societies (CSDES)	
Mexico	9	10	Comisión Nacional de Áreas Naturales Protegidas (CONANP)	National Government Agency for monitoring of protected areas
			https://www.gob.mx/conanp	
Namibia	25	50,786	Namibian Chamber of Environment (NCE)	Non-government organisation that works outside the Namibian government to monitor protected areas
			http://www.n-c-e.org/	
Peru	0	0	None found	
South Africa	63	376	Department of Environmental Affairs	National database of protected areas
			https://egis.environment.gov.za/data_egis/data_download/current	
USA	0	0	https://www.usgs.gov/core-science-systems/science-analytics-and-synthesis/gap	Natioanl database of protected areas
Total	1,038	70,230		

