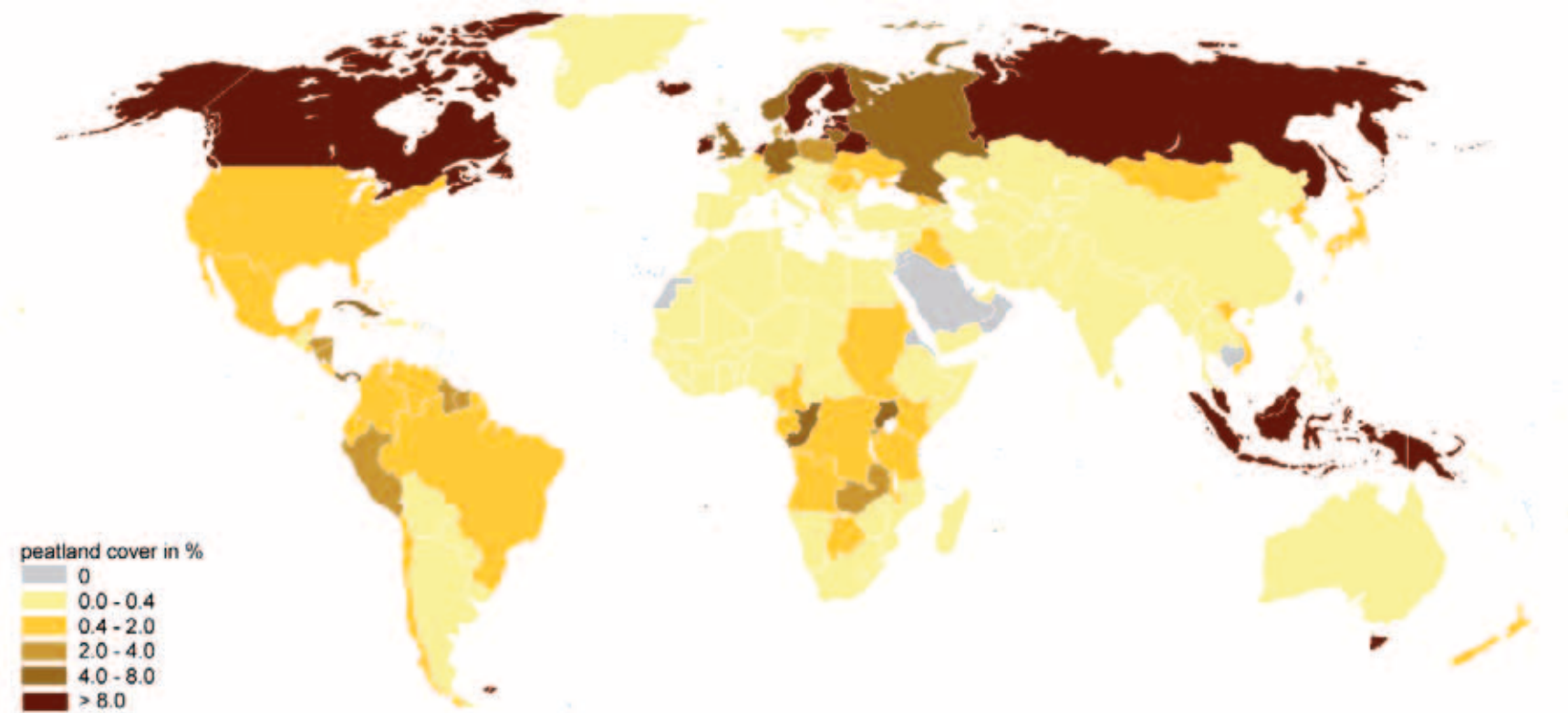


# The Global Peatland CO<sub>2</sub> Picture

Peatland status and drainage related emissions in all countries of the world



# The Global Peatland CO<sub>2</sub> Picture

Peatland status and drainage related emissions  
in all countries of the world

Hans Joosten, Greifswald University  
Wetlands International, Ede, August 2010  
[www.wetlands.org](http://www.wetlands.org)

# Country list of CO<sub>2</sub> emissions from degraded peatlands AFRICA

1990

Country/area	Area of country /area	Peatland area 1990	Peat carbon stock 1990	Forested peatland area 1990	Emissions from 1990 peatland drained for agriculture before 1990	Emissions in 1990 from 1990 peatland drained for forestry before 1990	Emissions in 1990 from 1990 peatland drained for peat extraction before 1990	Emissions in 1990 from 1990 peatland drained for other purposes before 1990	Emissions in 1990 from peat from non-forested peatland	Total degrading peatland area in 1990	Emissions from peat extracted in 1990	Total emissions in 1990 from degrading peat
	km <sup>2</sup>	km <sup>2</sup>	Mton C	km <sup>2</sup>	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	km <sup>2</sup>	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a
<b>AFRICA</b>												
Algeria	2 381 741	10	1	0	0.01	0	0	0	0.01	2	0	0.01
Angola	1 246 700	10 000	1 000	9 000	4	0	0.02	0	4.0	1 005	0.04	4.1
Benin	112 622	100	10	10	0.2	0	0	0	0.2	50	0	0.2
Botswana	581 730	3 000	300	0	0.4	0	0	0	0.4	100	0	0.4
Burkina Faso	274 200	150	15	50	0.2	0	0	0	0.2	50	0	0.2
Burundi	27 834	150	70	10	0.06	0	0.01	0	0.1	17	0.02	0.1
Cameroon	475 442	4 000	400	3 900	0.4	0	0	0	0.4	100	0	0.4
Canary Islands	7 273	0	0	0	0	0	0	0	0	0	0	0
Cape Verde	4 033	0	0	0	0	0	0	0	0	0	0	0
Central African Republic	622 436	100	10	50	0.04	0	0	0	0.04	10	0	0.04
Ceuta	28	0	0	0	0	0	0	0	0	0	0	0
Chad	1 284 000	10	1	0	0.02	0	0	0	0.02	5	0	0.02
Comoros	1 862	0	0	0	0	0	0	0	0	0	0	0
Congo	342 000	16 000	1 600	12 000	0.04	0	0	0	0.04	10	0	0.04
Dem. Republic of the Congo	2 344 885	12 000	1 200	10 000	2	0	0	0	2	500	0	2
Djibouti	23 200	55	6	40	0.06	0	0	0	0.06	15	0	0.06
Egypt	997 739	10	1	0	0.02	0	0	0	0.02	5	0	0.02
Equatorial Guinea	28 051	8	1	6	0.01	0	0	0	0.01	2	0	0.01
Eritrea	121 144	0	0	0	0	0	0	0	0	0	0	0
Ethiopia	1 133 380	2 200	220	100	0.4	0	0	0	0.4	100	0	0.4
Gabon	267 667	2 000	200	1 900	0.04	0	0	0	0.04	10	0	0.04
Ghana	238 500	100	10	50	0.08	0	0	0	0.08	20	0	0.1
Guinea	245 857	1 000	50	500	2	0	0	0	2	500	0	2
Guinea-Bissau	36 125	15	2	10	0.02	0	0	0	0.02	5	0	0.02
Ivory Coast	322 462	700	70	350	1	0	0	0	1	250	0	1
Kenya	582 646	5 000	500	2 000	2	0	0	0	2	500	0	2
Lesotho	30 355	20	2	0	0.05	0	0	0	0.05	13	0	0.05
Liberia	99 067	100	3	50	0.1	0	0.003	0	0.1	31	0.0004	0.1
Libya	1 757 000	100	5	0	0.04	0	0	0	0.04	10	0	0.04
Madagascar	587 041	1 900	190	900	2	0	0.03	0	2.0	510	0	2.0



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## 2008

Peatland area 2008	Peat carbon stock 2008	Forested peatland area 2008	Emissions in 2008 from 2008 peatland drained for agriculture before 2008	Emissions in 2008 from 2008 peatland drained for forestry before 2008	Emissions in 2008 from 2008 peatland drained for peat extraction before 2008	Emissions in 2008 from 2008 peatland drained for other purposes before 2008	Emissions from peat from non-forested peatland 2008	Total degrading peatland area 2008	Emissions from peat extracted in 2008	Total emissions from degrading peat 2008	Total technically possible future emissions	Country/area
km <sup>2</sup>	Mton C	km <sup>2</sup>	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	km <sup>2</sup>	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub>	AFRICA
10	1	0	0.007	0	0	0	0.007	2	0	0.007	3	Algeria
9 910	980	9 000	4	0	0.03	0	4.0	1 010	0.04	4.1	3 228	Angola
96	9	10	0.2	0	0	0	0.2	50	0	0.2	30	Benin
2 991	298	0	0.4	0	0	0	0.4	100	0	0.4	982	Botswana
146	14	50	0.2	0	0	0	0.2	50	0	0.2	46	Burkina Faso
148	70	5	0.2	0	0.01	0	0.2	63	0.01	0.3	229	Burundi
3 991	398	3 900	0.4	0	0	0	0.4	100	0	0.4	1 311	Cameroon
0	0	0	0	0	0	0	0	0	0	0	0	Canary Islands
0	0	0	0	0	0	0	0	0	0	0	0	Cape Verde
99	10	50	0.04	0	0	0	0.04	10	0	0.04	32	Central African Republic
0	0	0	0	0	0	0	0	0	0	0	0	Ceuta
10	1	0	0.02	0	0	0	0.02	5	0	0.02	3	Chad
0	0	0	0	0	0	0	0	0	0	0	0	Comoros
15 999	1 600	12 000	0.04	0	0	0	0.04	10	0	0.04	5 270	Congo
11 955	1 190	10 000	2	0.4	0	0	2	600	0	2.4	3 920	Dem. Republic of the Congo
54	5	35	0.07	0	0	0	0.1	18	0	0.1	17	Djibouti
10	0.9	0	0.02	0	0	0	0.02	5	0	0.02	3	Egypt
8	0.8	6	0.01	0	0	0	0.01	2	0	0.01	3	Equatorial Guinea
0	0	0	0	0	0	0	0	0	0	0	0.000	Eritrea
2 191	218	100	0.5	0	0	0	0.5	150	0	0.5	719	Ethiopia
1 999	200	1 900	0.08	0	0	0	0.1	20	0	0.1	658	Gabon
98	10	50	0.08	0	0	0	0.1	20	0	0.1	32	Ghana
955	40	450	2	0	0	0	2	500	0	2	132	Guinea
15	1	9	0.02	0	0	0	0.02	5	0	0.02	5	Guinea-Bissau
678	65	300	1.2	0	0	0	1.2	300	0	1.2	214	Ivory Coast
4 900	490	2 000	4	0	0	0	4	1 000	0	4	1 615	Kenya
19	2	0	0.06	0	0	0	0.06	16	0	0.06	6	Lesotho
97	2	40	0.2	0	0.003	0	0.2	41	0.0004	0.2	8	Liberia
99	5	0	0.04	0	0	0	0.04	10	0	0.04	16	Libya
1 854	180	800	2.4	0	0.03	0	2.4	610	0	2.4	593	Madagascar

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1990

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	km <sup>2</sup>	km <sup>2</sup>	Mton C	km <sup>2</sup>	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a	km <sup>2</sup>	Mton CO <sub>2</sub> /a	Mton CO <sub>2</sub> /a
<b>AFRICA (ctd)</b>												
Madeiras (Portugal)	794	0	0	0	0	0	0	0	0	0	0	0
Malawi	118 484	700	70	100	1.2	0	0	0	1.2	300	0	1.2
Mali	1 240 192	400	40	50	0.2	0	0	0	0.2	50	0	0.2
Mauritania	1 031 000	60	6	20	0.1	0	0	0	0.1	30	0.0004	0.1
Mauritius	2 040	0.05	0.01	0.02	0.0001	0	0	0	0.0001	0.02	0	0.0001
Melilla	12	0	0	0	0	0	0	0	0	0	0	0
Morocco	453 730	10	1	0	0.02	0	0	0	0.02	5	0	0.02
Mozambique	799 380	2 000	200	1000	3	0	0	0	3	750	0	3
Namibia	824 269	100	10	0	0.04	0	0	0	0.04	10	0	0.04
Niger	1 267 000	76	2	0	0	0	0	0	0	0	0	0
Nigeria	923 768	1 100	110	900	0.8	0	0	0.04	0.8	210	0	0.8
Réunion	2 512	120	9	50	0.08	0	0	0	0.08	20	0	0.08
Rwanda	26 338	800	120	10	0.4	0	0.01	0	0.4	104	0.03	0.4
São Tomé and Príncipe	1 001	2	0	0	0.004	0	0	0	0.004	1	0	0.004
Senegal	196 722	55	14	45	0.02	0	0.0003	0	0.02	6.1	0.04	0.06
Sierra Leone	71 740	100	5	50	0.1	0	0.003	0	0.1	31	0.0004	0.1
Somalia	637 700	200	20	10	0.2	0	0	0	0.2	50	0	0.2
South Africa	1 219 090	300	60	100	0.2	0	0.003	0	0.2	51	0.02	0.2
Sudan	2 505 800	30 000	2 000	0	4	0	0	0	4	1 000	0	4
Swaziland	17 363	50	5	0	0.1	0	0	0	0.1	30	0	0.1
Tanzania	945 100	4 500	250	500	0.3	0	0	0	0.3	80	0	0.3
The Gambia	11 295	50	1	30	0.08	0	0	0	0.08	20	0	0.08
Togo	56 785	30	3	5	0.04	0	0	0	0.04	10	0	0.04
Tunisia	164 418	2	0.2	0	0.004	0	0	0	0.004	1	0	0.004
Western Sahara	252 120	0	0	0	0	0	0	0	0	0	0	0
Uganda	241 138	14 000	1 400	1 500	16	0	0	0	16	4 000	0	16
Zambia	752 614	15 500	800	1 000	4	0	0	0	4	1 000	0	4
Zimbabwe	390 759	350	20	50	0.8	0	0	0	0.8	200	0	0.8
<b>AFRICA TOTAL</b>	<b>30 332 174</b>	<b>129 233</b>	<b>11 012</b>	<b>46 346</b>	<b>47</b>	<b>0</b>	<b>0.1</b>	<b>0</b>	<b>47</b>	<b>11 779</b>	<b>0</b>	<b>47.2</b>



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0	0	0	0	0	0	0	0	0	0	0	0	<b>AFRICA (ctd)</b>
673	64	100	1.2	0	0	0	1.2	300	0	1.2	211	Madeiras (Portugal)
396	39	50	0.2	0	0	0	0.2	50	0	0.2	129	Malawi
57	5	20	0.12	0	0.003	0	0.1	31	0.0007	0.1	18	Mali
0	0	0.02	0.0001	0	0	0	0.0001	0.02	0	0.00008	0.02	Mauritania
0	0	0	0	0	0	0	0	0	0	0	0	Mauritius
10	1	0	0.02	0	0	0	0.02	5	0	0.02	3	Meiilla
1 933	185	900	3.2	0	0	0	3.2	800	0	3.2	610	Morocco
99	10	0	0.04	0	0	0	0.04	10	0	0.04	32	Mozambique
76	2	0	0.04	0	0	0	0.04	10	0	0.04	7	Namibia
1 081	106	800	1.2	0	0	0	1.2	300	0	1.2	349	Niger
118	9	50	0.08	0	0	0	0.1	20	0	0.1	28	Nigeria
791	118	10	0.8	0	0.02	0	0.8	205	0.03	0.8	388	Réunion
2	0	0	0.004	0	0	0	0.004	1	0	0.004	0.59	Rwanda
54	14	45	0.03	0	0.003	0	0.03	8	0.04	0.07	46	São Tomé and Príncipe
97	4	40	0.16	0	0.003	0	0.16	41	0.0004	0.2	14	Senegal
196	19	10	0.2	0	0	0	0.2	50	0	0.2	63	Sierra Leone
295	59	90	0.3	0	0.003	0	0.3	71	0.04	0.3	194	Somalia
29 910	1 980	0	4	0	0	0	4	1 000	0	4	6 523	South Africa
47	4	0	0.1	0	0	0	0.1	35	0	0.1	15	Sudan
4 493	248	500	0.4	0	0	0	0.4	90	0	0.4	818	Swaziland
48	1	30	0.08	0	0	0	0.08	20	0	0.08	2	Tanzania
29	3	5	0.08	0	0	0	0.08	20	0	0.08	9	The Gambia
2	0	0	0.004	0	0	0	0.004	1	0	0.004	0.6	Togo
0	0	0	0	0	0	0	0	0	0	0	0	Tunisia
13 640	1 321	1 400	20	0	0	0	20	5 000	0	20	4 352	Western Sahara
15 410	780	1 000	4.8	0	0	0	4.8	1 200	0	4.8	2 570	Uganda
332	16	50	1	0	0	0	1	250	0	1	53	Zambia
130 126	10 780	45 805	56	0	0.1	0	56	14 215	0.1	56.9	35 511	Zimbabwe
												<b>AFRICA TOTAL</b>