Supplementary Materials: Paradise Islands? Island States and Environmental Performance

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Table S1. The list of environmental indicators used as dependent variables.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
	Water and Sanitation							
1	Access to drinking water (proximity to target)	EPI 2012	WHO/UNICEF	1990–2005, 2008	196	35	direct	percentage of a country's population that has access to an improved source of drinking water
2	Access to sanitation (proximity to target)	EPI 2012	WHO/UNICEF	1990–2005, 2008	192	33	direct	percentage of people with access to adequate sanitation facilities in relation to the total population
3	Change in water quantity (proximity to target)	EPI 2012	P. Döll, K. Fiedler, and J. Zhang. Global-scale analysis of river flow alterations due to water withdrawals and reservoirs, Hydrol. Earth Syst. Sci., 13	2005	202	32	direct	reduction of mean annual river flow from "natural" state resulting from water withdrawals and reservoirs
4	Water consumption (proximity to target)	EPI2006	University of New Hampshire, Water Systems Analysis Group	mean annual 1950–1995	171	16	direct	percentage, human water demand
5	Water withdrawal score	Wellbeing index	FAO	2001	165	20	direct	annual withdrawals of ground and surface water for domestic, agricultural, and industrial uses, in cubic kilometers per year
6	Nitrogen loading (proximity to target)	EPI2006	University of New Hampshire, Water Systems Analysis Group	mean annual 1950–1995	172	16	direct	milligrams/liter; accounts for: atmospheric nitrogen deposition, nitrogen fixation, nitrogenous fertilizer loads, livestock nitrogen loading; and human nitrogen loading

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
	Air and emissions							
7	Sulfur dioxide emissions per capita (proximity to target)	EPI 2012	Smith <i>et al.</i> (2011). Anthropogenic sulfur dioxide emissions: 1850– 2005, Atmos. Chem. Phys., WDI, CIA World Factbook	1850–2005	138	13	direct	Kilograms of sulfur dioxide/person
8	Sulfur dioxide emissions per GDP (proximity to target)	EPI 2012	Smith <i>et al.</i> (2011). Anthropogenic sulfur dioxide emissions: 1850– 2005, Atmos. Chem. Phys., WDI, CIESIN	1850–2005	138	13	direct	grams of sulfur dioxide per US dollar PPP (in 2005 constant US dollars)
9	Carbon dioxide per capita (proximity to target)	EPI 2012	International Energy Agency	1960–2009	137	13	direct	kilograms of carbon dioxide per person
10	Carbon dioxide per GDP (proximity to target)	EPI2006	Carbon Dioxide Information Analysis	2000	181	34	direct	tons of carbon dioxide/ US dollar GDP PPP, in 2000 US dollar
11	CO ₂ emissions per electricity generation (proximity to target)	EPI 2012	International Energy Agency	1960–2009	137	13	direct	grams of CO2 per kWh
12	Urban Particulates (proximity to target)	EPI2006	Global Model of Ambient Particulates (GMAPS), World Bank	1999, 2000	180	27	direct	µg/m 3; only cities larger than 100,000 population and national capitals were considered, with a population weighted PM10 concentration to account for exposure
13	Anthropogenic NOx emissions per populated land area	ESI 2005	UNFCCC, Greenhouse gas (GHG) emissions database, <i>etc</i> .	1990–2003	158	19	inverse	metric tons NOx emissions per populated land area
14	Anthropogenic sulfur dioxide emissions per populated land area	ESI 2005	UNFCCC, Greenhouse gas (GHG) emissions database, <i>etc</i> .	1990–2003	153	17	inverse	metric tons sulfur dioxide per populated land area
15	Anthropogenic volatile organic compound emissions per populated land area	ESI 2005	UNFCCC, Greenhouse gas (GHG) emissions database, etc.	1990–2003	159	20	inverse	metric tons of non-methane volatile organic compounds per populated land area

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
16	Acidification exceedance from anthropogenic sulfur deposition	ESI 2005	Stockholm Environment Institute at York	1990	236	40	inverse	percentage of total land area at risk of acidification exceedance
17	Import of polluting goods and raw materials as a percentage of total imports of goods and services	ESI 2005	COMTRADE	2002	114	14	inverse	import of polluting goods and raw materials as a percentage of total imports of goods and services
18	Use of ozone depleting substances per land area	Wellbeing index	Ozone Secretariat, United Nations Environment Programme. 1999. Production and consumption of ozone depleting substances 1986–1998. Ozone Secretariat, UNEP, Nairobi	1995	154	27	inverse	the use of ozone depleting substances per hectare of total (land and inland waters) area in grams of ozone depleting potential (g odp/ha)
19	Use of ozone depleting substances per capita	Wellbeing index	Ozone Secretariat, UNEP. 1999. Production and consumption of ozone depleting substances 1986–1998	1995	154	27	inverse	use of ozone depleting substances per person in grams of ozone depleting potential (g odp/capita)
20	Regional ozone (proximity to target)	EPI2006	MOZART-data, dev. at NCAR processed at Princeton University	1990–2004	218	39	direct	parts per billion, ozone concentration; 10 highest concentrations from 1990–2004 years
	Biodiversity							
21	Threatened native bird species as a percentage of total native species	Wellbeing index	IUCN Species Survival Commission	1995	168	32	inverse	percentage
22	Threatened native species as a percentage of total native mammal species	Wellbeing index	IUCN Species Survival Commission	1995	176	31	inverse	percentage

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
23	Threatened native reptiles as a percentage of total native reptile species	Wellbeing index	IUCN Species Survival Commission	1995	139	31	inverse	percentage
24	Threatened amphibian species as a percentage of known amphibian species in each country	ESI 2005	IUCN-The World Conservation Union Red List of Threatened Species	2004	191	27	inverse	percentage
25	Threatened flowering plants species as a percentage of all wild species	Wellbeing index	IUCN Species Survival Commission	1995	142	30	inverse	percentage
26	Threatened gymnosperms as a percentage of total native species of gymnosperms	Wellbeing index	IUCN Species Survival Commission	1995	81	18	inverse	percentage
27	Threatened native species of pteridophytes as a percentage of total native species	Wellbeing index	IUCN Species Survival Commission	1995	69	15	inverse	percentage
28	Endangered species	EVI2004	Needed Source?	2000	230	39	inverse	number of endangered and vulnerable species per 1000 square kilometers; focuses on those species that have become endangered or threatened in a country with implied impacts on biodiversity and ecosystem integrity
29	Extinctions	EVI2004	IUCN Red Book 2000	1900–2000	229	39		number of species known to have become extinct since 1900 per 1000 square kilometers
30	National Biodiversity Index	ESI 2008	Convention on Biological Diversity, Global Biodiversity Outlook	2001	160	14	direct	score 0–1; assesses a country's species richness by measuring species abundance (includes some adjustment allowing for country size); countries with land area less than 5000 square kilometers are excluded as are overseas territories and dependencies

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
	Protected areas							
31	Marine protection (proximity to target)	EPI 2012	IUCN and UNEP-WCMC	1990–2010	185	40	direct	percentage of exclusive economic zone area protected
32	Terrestrial protected areas	WB	UNEP-WCMC, WRI	2010	202	34	direct	percentage of total terrestrial area
33	Ecoregion protection	NRMI	CIESIN	2011	233	40	direct	percentage of biome area protected within country's land area; capped at 10% for each biome, consistent with international target, and weighted by share of biome's area in the country land area.
34	Percentage of country's territory in threatened ecoregions	ESI 2005	Jonathan M. Hoekstra, Timothy M. Boucher, Taylor H. Ricketts, and Carter Roberts. (2005). Confronting a biome crisis: Global disparities of habitat loss and protection. <i>Ecology Letters</i> , 8, pp. 23-29	2004	230	39	inverse	threatend ecoregions are ecoregions with high ratios of habitat conversion to habit protection that are classified as vulnerable, endangered, or critical
35	Critical habitat protection (proximity to target)	EPI 2012	UNEP-World Conservation Monitoring Centre	2011	88	22	direct	percentage of the total Alliance for Zero Extinction site area that is within protected areas
36	Wilderness protection (proximity to target)	EPI2006	World Database on Protected Areas	2000	204	31	direct	percentage of wild areas that are protected; for each biome in a country, the following were calculated: the mean and standard deviation of Human Influence Index values, the sum of the footprint of human habitation (settlements, land use), infrastructural development (transportation and electric grid), and the population density

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
	Forest and vegetation							
37	Growing stock change (proximity to target)	EPI 2012	FAO	1990, 2000, 2005 and 2010	155	19	direct	the standing tree volume of the forest resources, ratio of period 1 to period 0
38	Forest loss (proximity to target)	EPI 2012	FAO	1990, 2000, 2005 and 2010	189	31	direct	the percentage loss of forest area owing to deforestation from either human or natural causes
39	Forest cover change (proximity to target)	EPI 2012	FAO	1990, 2000, 2005 and 2010	215	37	direct	percentage change in the forest cover from period 0 to period 1
40	Percentage of total forest area that is certified for sustainable management	ESI 2005	The Forest Stewardship Council, WRI	2000, 2004	230	40	direct	percentage of total forest area that is certified for sustainable management by The Forest Stewardship Council or Pan- European Forest Certification Council
41	Natural vegetation cover remaining	EVI2004	WRI, FAO	2000–2001	155	19	direct	percentage of original (and regrowth) vegetation cover remaining
42	Loss of natural vegetation cover	EVI2004	WRI, FAO	2000–2001	155	12	direct	net percentage change in natural vegetation cover over the last five years
43	Timber harvest rate (proximity to target)	EPI2006	FAO	2000 and 2004	168	19	direct	timber harvest rate (percentage)
	Fisheries and the marine	environment						
44	Fishing stocks overexploited (proximity to target)	EPI 2012	Sea Around Us Project	1950–2006	181	40	direct	fraction of exclusive economic zone with overexploited and collapsed stocks
45	Coastal shelf fishing pressure (proximity to target)	EPI 2012	Sea Around Us Project	1950–2006	185	40	direct	the catch from trawling and dredging gears divided by the exclusive economic zone area, tons per square kilometer
46	Overfishing (proximity to target)	EPI2006	Environmental Vulnerability Index	1993–1998	172	38	direct	average ratio of productivity to catch for five years 1993-1998
47	Fish catching capacity per fish producing area score	Wellbeing index	FAO, etc.	1995	154	32	direct	the score (0–100) for weight of fish catching capacity per unit of fish producing area
48	Fishing effort	EVI 2004	WRI	1994–1996	97	11	inverse	average annual number of fishers per kilometer of coastline over the last 5 years, captures the risk of damage to fisheries' stocks through overcapacity of human effort

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
49	Percentage of fish species overexploited and depleted	Wellbeing index	FAO Marine Resources Service	1995	80	14	inverse	overexploited species + depleted species + depleted but recovering species as a percentage of assessed species
50	Fisheries protection score	Wellbeing index	FAO Marine Resources Service	1995	80	14	direct	score (0–100) for overexploited species + depleted species + depleted but recovering as a percentage of assessed species, but the tops were set at five times those for the wild species indicators, since depleted and overexploited species are not necessarily threatened
51	Fish catch in marine and inland waters	Wellbeing index	FAO	1995	157	32	inverse	metric tons of catch
52	Tons of fish catch per ton of fish catching capacity	Wellbeing index	FAO	1995	157	32	direct	the score (0–100) for weight of catch per unit of fish catching capacity
53	Ecosystem imbalance	EVI2004	University of British Columbia, Fisheries Centre, Lower Mall Research Station	NA	180	39	inverse	+ or – change in trophic level calculated by weighting each trophic level present in the national catch by the tons reported.; captures the risk of ecosystem stress and loss of diversity/ balance; the greater the downward trend, the more likely that the marine biomass and trophic structures have been damaged
54	Food provision—Wild caught fisheries	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; reflects the amount of seafood captured in a sustainable way; the more seafood harvested or cultured sustainably, the higher the goal score
55	Food provision— Mariculture	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; reflects the amount of seafood raised in a sustainable way; the more seafood harvested or cultured sustainably, the higher the goal score
56	Natural products	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; measures how sustainably people harvest non-food products from the sea

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
57	Carbon storage	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; compares the current extent and condition of carbon dioxide storing coastal habitats (mangrove forests, seagrass meadows, and salt marshes) relative to their condition in the early 1980s.
58	Coastal protection	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; measures the condition and extent of habitats that protect the coasts against storm waves and flooding; compares the current extent and condition of five key habitats that protect coastlines (mangrove forests, seagrass meadows, salt marshes, tropical coral reefs, and sea ice) from flooding and erosion relative to their condition in the early 1980s.
59	Sense of place—Iconic species	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; measures the condition of iconic species to indicate some of ocean's intangible benefits
60	Sense of place—Lasting special places	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; measures the percent of protected coastline to indicate some of ocean's intangible benefits
61	Clean waters	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; measures contamination of waters by trash, nutrients, pathogens, and chemicals
62	Biodiversity – Habitats	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; reflects conservation status of marine species
63	Biodiversity—Species	OHI 2012	Ocean Health Index	2012	157	39	direct	index, 0–100; reflects the condition of key habitats that support high numbers of species
	Energy							
64	Energy efficiency (proximity to target)	EPI2006	Energy Information Administration	1994–2003	182	31	direct	percentage of hydroelectric, biomass, geothermal, solar, and wind power production of total energy consumption

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation	
65	Renewable energy (proximity to target)	EPI2006	Energy Information Administration	1994–2003	210	36	direct	hydropower and renewable energy production as a percentage of total energy consumption; some countries exceed 100 percent because they are net exporters of renewable energy	
66	Energy materials score	Wellbeing index	FAO	2001	180	32	direct	the lower score of two indicators: energy consumption per hectare of total area and energy consumption per person; it is limited to an energy index because of a lack of data on consumption of materials and waste generation.	
	Waste								
67	Generation of hazardous waste	ESI 2005	UNEP	1992–2001	91	15	inverse	metric tons of hazardous waste to be managed in the country	
	Agriculture, pesticides, fertilizers								
68	Salinized area due to irrigation as a percentage of total arable land	ESI 2005	FAO	Arable land: 2000, Salinized area: MRYA 1990–1999	73	10	inverse	percentage of total salinized arable land from irrigation	
69	Fertilizer consumption per hectare of arable land	ESI 2005	World Bank World Development Indicators	MRYA 2001– 2003	176	27	inverse	100 grams fertilizer consumption per hectare of arable land	
70	Pesticide consumption per hectare of arable land	ESI 2005	FAO	MRYA 1990– 2003	127	17	inverse	kilograms of pesticide consumption per hectare of arable land	
71	Intensive farming	EVI 2004	FAO	1995–2000	176	32		mean tons of intensively farmed animals produced per year per square kilometer of land	
	Land use								
72	Percentage of modified land	Wellbeing index	WCMC, etc.	mid-1990s	180	32	inverse	percentage	
73	Percentage of land cultivated	Wellbeing index	FAO, UNECE & FAO	2001	180	32	inverse	percentage	
74	Percentage of land that is built upon	Wellbeing index	WCMC, etc.	mid-1990s	180	32	inverse	percentage	

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
75	Percentage of cultivated and modified land area with light soil degradation	Wellbeing index	UNEP/ISRIC, etc.	1990	167	19	inverse	a percentage of land with somewhat reduced agricultural suitability, where the light degree explains the level of soil degradation affecting an area given the weighted total percentage by the factors given; restoration to full productivity possible by modifying management; original biotic functions still largely intact
76	Percentage of cultivated and modified land area with moderate soil degradation	Wellbeing index	UNEP/ISRIC, etc.	1990	167	19	inverse	percentage of land with greatly reduced agricultural suitability; major improvements required to restore productivity; original biotic functions are partly destroyed
77	Percentage of cultivated and modified land Area with strong soil degradation	Wellbeing index	UNEP/ISRIC, etc.	1990	167	19	inverse	percentage of land that is non-reclaimable at farm level; major engineering works required for restoration; original biotic functions destroyed
78	Percentage of cultivated and modified land area with Extreme soil degradation	Wellbeing index	UNEP/ISRIC, etc.	1990	167	19	inverse	percentage of land that is unreclaimable and beyond restoration; original biotic functions fully destroyed
79	Degradation	EVI2004	FAO	2000	165	12	inverse	percentage of a country's land area considered severely and very severely degraded; reflects the status of loss of ecosystems in a country (land can no longer revert to its natural ecosystem without active and costly rehabilitation by humans to reverse permanent damage, if at all)
80	Desertification sub- index	EVI2004	EVI	2004	234	39		unweighted average of the scores for environmental risk occurrence (dry periods, hot winds, etc.)

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
81	Fragmented habitats	EVI2004	World Bank World Development Indicators 2001	1990–1999	169	23	inverse	total length of all roads in a country (km)/land area (sq km); cumulative area of all fragments of natural cover greater than 1000 hectares in the country as a percent of total land area; a proxy measure for pressure on ecosystems resulting from fragmentation into discontinuous pieces that also relates to habitat disturbance and degradation; fragmentation is likely to affect biodiversity
	Ecofootprint							
82	Water footprint of consumption—total	WWF 2008	Living planet report, WWF 2008	1997–2001	138	14	inverse	gigameters cubed/year; total amount of water that is used to produce the goods and services consumed by the inhabitants of the nation
83	Water footprint of consumption—internal	WWF 2008	Living planet report, WWF 2008	1997–2001	138	14	inverse	water footprint from domestic supply
84	Water footprint of consumption—external	WWF 2008	Living planet report, WWF 2008	1997–2001	138	14	inverse	water footprint from imported water
85	Water footprint of production—Green water	WWF 2008	Living planet report, WWF 2008	1997–2001	138	14	inverse	volume of rainwater stored in the soil that evaporates from crop fields
86	Water footprint of production—Blue water	WWF 2008	Living planet report, WWF 2008	1997–2001	138	14	inverse	volume of freshwater withdrawn from water bodies that is used and not returned
87	Water footprint of production—Return flows	WWF 2008	Living planet report, WWF 2008	1997–2001	138	14	inverse	volume of water polluted as a result of the production process
88	Water footprint of production—stress on blue water resources	WWF 2008	Living planet report, WWF 2008	1997–2001	138	14	inverse	Ratio of total production water footprint minus the green component to total renewable water resources available in a country.
89	Ecological footprint per capita	ESI 2005	Redefining Progress Ecological Footprint of Nations 2004	MRYA 1999– 2000	145	10	inverse	hectares of biologically productive land required per capita

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
90	Other anthropogenic pre Percentage of total land area (including inland waters) having very low anthropogenic impact	ESI 2005	The Human Influence Index, CIESIN	2004	222	39	direct	measures anthropogenic impact on land and inland waters based on human land uses, human access from roads, railways or major rivers, electrical infrastructure, and population density
91	Percentage of total land area (including inland waters) having very high anthropogenic impact	ESI 2005	The Human Influence Index, CIESIN	2004	222	39	inverse	Some repeat of above?
92	Spills	EVI2004	ITOPF 2002, CRED 2000	1996–2000	150	36	inverse	number of spills greater than 1000 liters between 1996-2000; captures the risk to marine, estuarine, riverine, lake, ground water, and terrestrial ecosystems from spills of hydrocarbons and other toxic fluids.
93	Mining	EVI2004	USGS—US Geological Survey	1996–2000	233	39	inverse	average total mining production from 1996–2000 in tons/square kilometers/year; captures the risk to terrestrial, aquatic ecosystems, and ground waters from the effects of ecosystem disturbance, accidents, oil spills and toxic leachates, and processing from mining of all kinds.
	Environmental regulation	n						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
94	Number of environmental agreements total	ENTRI	ENTRI	2008	202	39	direct	Number of environmental agreements signed
95	Participation in international environmental agreements	ESI 2005	9 major environmental treaties considered	2004	230	40	direct	Score between 0 and 1 with 0 corresponding to no participation and 1 equal to full participation; combines ratifications of treaties and conventions with the level of active participation in, contribution to, and compliance with the treaties' obligations; comprises nine major environmental treaties including Kyoto protocol, CITES, UNCCD

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
96	Number of memberships in environmental intergovernmental organizations	ESI 2005	Yearbook of International Organizations	2003–2004	230	40	direct	number of memberships in environmental intergovernmental organizations
97	Pesticide regulation (proximity to target)	EPI 2012			232	40	direct	legislative status of countries on the Stockholm Convention on POPs usage, and also the degree to which the country has followed through on the objectives of the conventions by limiting or outlawing the use of certain toxic chemicals
98	World Economic Forum Survey on environmental governance	ESI 2005	World Economic Forum (WEF) Survey, The Global Competitiveness Report	2003–2004	102	12	direct	survey questions addressing several aspects of environmental governance
99	Local Agenda 21 initiatives per million people	ESI 2005	International Council for Local Environmental Initiatives, WDI	2001	112	13	direct	number of Local Agenda 21 initiatives per million people
100	Percentage of variables missing from the CGSDI "Rio to Joburg Dashboard"	ESI 2005	Consultative Group on Sustainable Development Indicators	2002	159	17	inverse	percentage; the greater the number of missing variables, the poorer the data availability in that country; environmental monitoring and data systems are vital for tracking progress towards environmental sustainability
101	IUCN member organizations per million population	ESI 2005	IUCN-The World Conservation Union	IUCN memberships: 2004, Population: 2003	207	37	direct	number of member organizations per million people;
102	Participation in the Responsible Care Program of the Chemical Manufacturer's Association	ESI 2005	International Council of Chemical Associations	2002	230	40	direct	score 1–4; participation in the Responsible Care Program of the Chemical Manufacturer's Association; responsible handling of chemicals is important for environmental sustainability

Table S1. Cont.

#	Name of the Variable	Source of Data	Original Source	Reference Year	Total Number of Observations	Number of Island States	Interpretation	Explanation
103	Number of ISO 14001 certified companies per billion dollars GDP (PPP)	ESI 2005	For ISO14001/EMAS registered companies: Reinhard Peglau, c/o Federal Environmental Agency, Germany, For GDP (PPP) data: World Bank World Development Indicators 2004	ISO14001: 2003, GDP: MRYA 1998– 2002	222	38	direct	number of ISO 14001 certified companies per billion dollars GDP (PPP)
	Other							
104	World Economic Forum Survey on private sector environmental innovation	ESI 2005	World Economic Forum	2003, 2004	102	12	direct	survey questions on private sector environmental innovation, which contributes to developing solutions to environmental problems
105	Contribution to international and bilateral funding of environmental projects and development aid	ESI 2005	Global Environmental Facility (GEF) contributions and receipts and Organisation for Economic Co-operation and Development (OECD) bilateral environmental aid; For ancillary economic data (GNI, PPP, USD current income): World Bank, World Development Indicators 2004; For population data: CIA World Factbook	2004	178	35	direct	score, 0–100

Note: Direct interpretation of the indicator implies that higher values stand for "better" performance on this indicator. Inverse interpretation means that higher values mean "worse" performance on this indicator.