



Strategic Goal B - Reduce the direct pressures on biodiversity and promote sustainable use

Target 5 – Loss of habitats

Indicator Name	Indicator Partners	Last Update	Next Update	Description	CBD Operational Indicator(s)
River fragmentation ●	McGill University (maybe with WWF, TNC, Umea)	2005?	2013-14?		Trends in fragmentation of habitats
Flow regulation ●	McGill University	2005, 2011	2013-14 (if funded)		Trends in proportion of degraded / threatened habitats
Living Planet Index ● ●	WWF, ZSL	2012	2014		Trends in habitat dependent species
Red List Index for forest species, wetland species etc	IUCN, Birdlife etc				Extinction risk of trends of habitat dependent species in each habitat type
Waterbird Index	Wetlands International	2010	2014	Complementary to Wild Bird Index and Red List Index in geographic coverage	
Marine Extent Indicator (coral reefs, mangroves, seagraves) ● ●	UNEP-WCMC	2010	?		Trends in condition and sustainability of ES. Trends in extent of selected biomass, ecosystems and habitats.
Area of forest under sustainable management: degradation and deforestation	FAO	?	?		Trends in proportion of degraded/ threatened habitats

Extent of forests and forest types	FAO, FRA	2010	2015		Extinction risk trends of habitat dependent species in each major habitat type Trends in extent of selected biomes, ecosystems and habitats Trends in extent of forest cover Trends in extent of planted forests
Wild Bird Index 	Birdlife, RSPB				Population trend of habitat dependent species in each major habitat type
Ocean Health Index 	CI, NCEAS, Sea Around Us, NEAq, National Geographic	Aug 15 2012	Sept 2013		Correlation of vulnerability of ecosystems
GEO BON offers opportunity to expand the range of habitats where rate of loss can be measured e.g. wetlands, marine etc					
Traditional Knowledge Indicators					Trends in proportion of degraded/threatened habitats Trends in fragmentation of natural habitats Trends in proportion of natural habitats connected
Trends in IAS – Impacts on Habitats					
LPI Plants using SRLI data collection					
Correlate trends for RLI for coral and condition of coral reefs					



Target 6 – Sustainable fisheries




Indicator Name	Indicator Partners	Last Update	Next Update	Description	CBD Operational Indicator(s)
Number of MSC Certified Fisheries ● ●	Marine Stewardship Council	Monthly			A, B
Marine Trophic Index ● ●	Sea Around Us Project, University of British Columbia	2009	2013		
Red List Index for pelagic bird, fish, corals, seagraves etc	IUCN, Birdlife etc				Trends in extinction risk of bycatch aquatic species Trends in extinction risk of fish invertebrates and aquatic plants
Living Planet Index ● ●	WWF, ZSL	2012	2014	Fish Stocks	Trends in target and bycatch species
Wild Commodities Index ● ●	UNEP-WCMC, TRAFFIC, Birdlife, IUCN, ICL, Microsoft dev	2012 with 2007 data	?		Trends in population and extinction risk of utilized species including species in trade Trends in populations of target and bycatch of aquatic species
Trends of alien species	ISSG, Monash University, GIASIP	2007	2014	Impact of introduced species for fishery	
Proportion of fish stocks outside safe biological limits	FAO	?	?		Trends in proportion of utilized stocks outside safe biological limits
Biodiversity for food and medicine					

Ocean Health Index ● ●	CI, NCEAS, Sea Around Us, NEAq, National Geographic	Aug 15 2012	Sept 2013		Fishing wild caught
MTI: Spatial Disaggregation any scale. Accounting for fisheries expansion ● ●				<i>Can do</i>	
MTI: Global Fishing Effort Database				1950-2010 Global and specialised by country. <i>Could do (funding?)</i>	
Trends in IAS – Impacts on fisheries ● ●					
Correlate trends for RLI for coral and condition of coral reefs					



Target 7 – Areas under sustainable management

Indicator Name	Indicator Partners	Last Update	Next Update	Description	CBD Operational Indicator(s)
Sustainably managed, FSC certified forest management	FSC	Continuous			
Living Planet Index ● ●	WWF, ZSL	2012	2014	Sustainable agriculture etc	Trends in agricultural and forest species
Marine Extent Indicator	UNEP-WCMC	2010	?		
Area of agricultural ecosystems under sustainable management	FAO	?	?		Trends in area of forest, agricultural and aquaculture under sustainable management

Sub-components of the Ecological Footprint over time (per unit output) 	Global Footprint Network	May 2012	Dec 2012		
Wild Bird Index 	Birdlife, RSPB				Trends of populations of agriculture dependent species in production systems
Ocean Health Index 	CI, NCEAS, Sea Around Us, NEAq, National Geographic	Aug 15 2012	Sept 2013		
Area of High Conservation Value (HCV) certified and managed accordingly	FSC				
Trends in IAS – Impacts on agriculture, forestry, fisheries and aquaculture)					








Target 8 - Pollution

Indicator Name	Indicator Partners	Last Update	Next Update	Description	CBD Operational Indicator(s)
Water Quality Index for Biodiversity	UNEP, GEMS Water	2010	?		
Nitrogen Loss 	INI, N-PRINT	2012	2013		Trends in nitrogen footprint of conservation activities
Nitrogen deposition 	INI	2011	2013		Trends in pollution deposition rate
Red List Index for Pollution Impacts	IUCN, Birdlife				Impact of pollution of extinction risk trends
Living Planet Index 	WWF, ZSL	2012	2014		Trends in indicator species populations

Ocean Health Index ● ●	CI, NCEAS, Sea Around Us, NEAq, Nat. Geographic	Aug 15 2012	Sept 2013		Clean Water Indicator
Trends in emission to environment of NH ₃ , NO _x , SO _x , HM, POP ● ●	INI			Could do	
Trends in UV-radiation levels ● ●	INI			Could do	
Trends in proportion of WW discharged after treatment ● ●	INI			Could do	
Critical need to 'fix' the WDPA to enable analysis with other indicators					
WQIB: Existing indicator data – most countries with WQ monitoring programmes have biomonitoring programmes				UN Working Group on indicators?	
WQIB: Indicator gaps – biotic indicators/indices					
WQIB: Links – environmental flows, foresting index, protected areas, INI ● ●					


Target 9 – Invasive Alien Species

Indicator Name	Indicator Partners	Last Update	Next Update	Description	CBD Operational Indicator(s)
Number of Alien Species by Country ● ●	ISSG, Monash University, IUCN, GIASIP	2007	2014		Addition to number of invasive alien species

Living Planet Index 	WWF, ZSL	2012	2014		Trends in coral reef and other frontline indicator species Trends in Arctic species
Arctic Species Trend Index 	CBMP, ZSL, WWF	2012	2014		Strategic goals B and C
Indicator trend of alien species	ISSG, Monash University, GIASIP				
Marine Extent Indicator	UNEP-WCMC	2010	?		
Climatic Impact Index 	RSPB, Birdlife				Trends in climatic impacts on population trends
Ocean Health Index 	CI, NCEAS, Sea Around Us, NEAq, National Geographic	Aug 15 2012	Sept 2013		
Trends in IAS – Major impacts on reefs					
Arctic land cover change index	CBMP, Google Earth		Tracking extent and quality of Arctic land cover (ecosystems) over time (marine, terrestrial and freshwater)		Trends in extent and rate of shifts of boundaries of vulnerable ecosystems
Climate change Community Temperature Index 				<i>Can do</i> Devictor et al, 2012	
Climate change Vulnerability Assessment Index 	IUCN				

Key

Current
indicators

Potential from BIP Indicators (disaggregations;
combinations; sub-indicators)

Possible new
indicators

- Examples of, or potential for, global indicator use at the national level
- Examples of, or potential for, global indicator use at the regional level
- Disaggregated for gender
- Disaggregated for plants

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