



IUCN's Knowledge Products

How existing initiatives can support IPBES with data, information and knowledge products

Side event: Wednesday 18 April 2012

Simon Stuart

Chair, Species Survival Commission

Jane Smart

Global Director, IUCN Biodiversity Conservation Group



- Collaborating with existing initiatives on biodiversity and ecosystem services
- IUCN's 'offering' to IPBES

The graphic features the IUCN logo at the top left. Below it, the title "IUCN Knowledge Products" is displayed, followed by the subtitle "The basis for a partnership to support the functions and work programme of IPBES". The central part of the graphic is a world map with four circular callouts. The top-left callout is titled "The IUCN Red List of Threatened Species™" and shows a frog, with a text box stating "measures extinction risk". The top-right callout is titled "IUCN Red List of Ecosystems" and shows a forest, with a text box stating "measures elimination risk". The bottom-left callout is titled "Key biodiversity areas" and shows penguins, with a text box stating "sites of biodiversity importance requiring conservation action". The bottom-right callout is titled "World Database on Protected Areas (WDPA) Protected Planet" and shows a landscape, with a text box stating "sites with protected status". At the bottom of the graphic, the text "INTERNATIONAL UNION FOR CONSERVATION OF NATURE" is written in a blue bar. Below this bar are logos for CEC, IUCN, CEM, SSC, and WCPA.



- This presentation: quick brief on the knowledge products described
- All engage scientists
- Governance ensures independence
- All do or will involve peer review
- All based on internationally negotiated standards

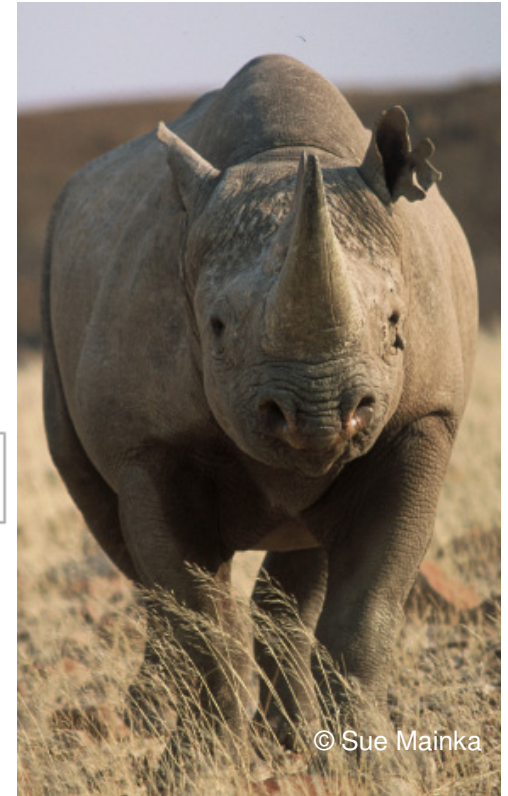
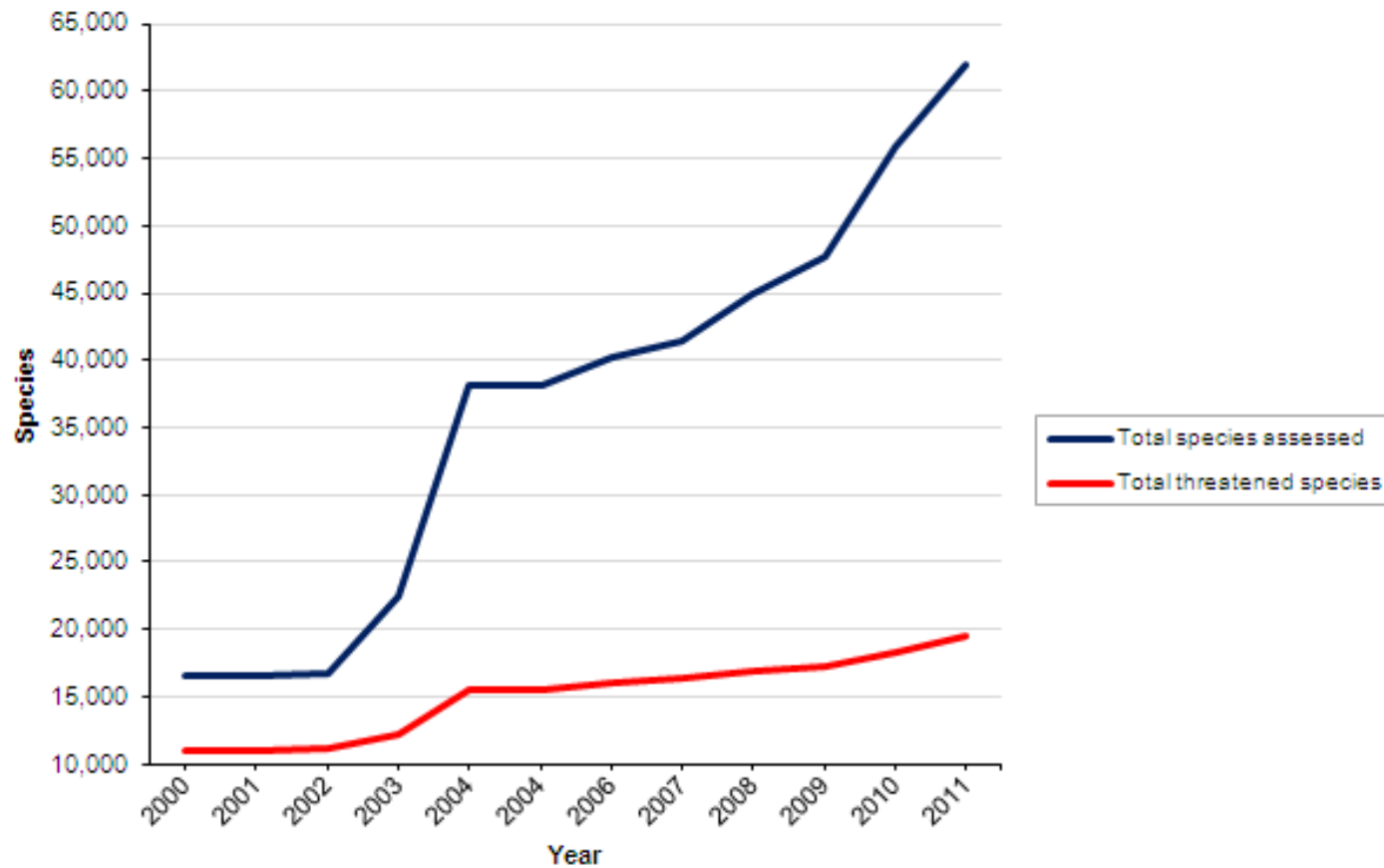
Contents

Executive Summary .....	.6	
Introduction .....	.8	
Main features of IUCN Knowledge Products .....	.10	
Integrated and interoperable processes and products .....	.13	
The IUCN Red List of Threatened Species™ .....	.16	
Protected Planet (including the World Database on Protected Areas - WDPA) .....	.24	
IUCN standard to identify areas of global biodiversity significance ("key biodiversity areas" - KBAs) .....	.32	
IUCN Red List of Ecosystems .....	.42	
Global Invasive Species Database (GISD) .....	.48	
ECOLEX: the Gateway to Environmental Law .....	.54	
IUCN Green List of well-managed Protected Areas .....	.60	
IUCN Natural Resource Governance Framework .....	.64	
IUCN Index of Human Dependency on Nature .....	.66	

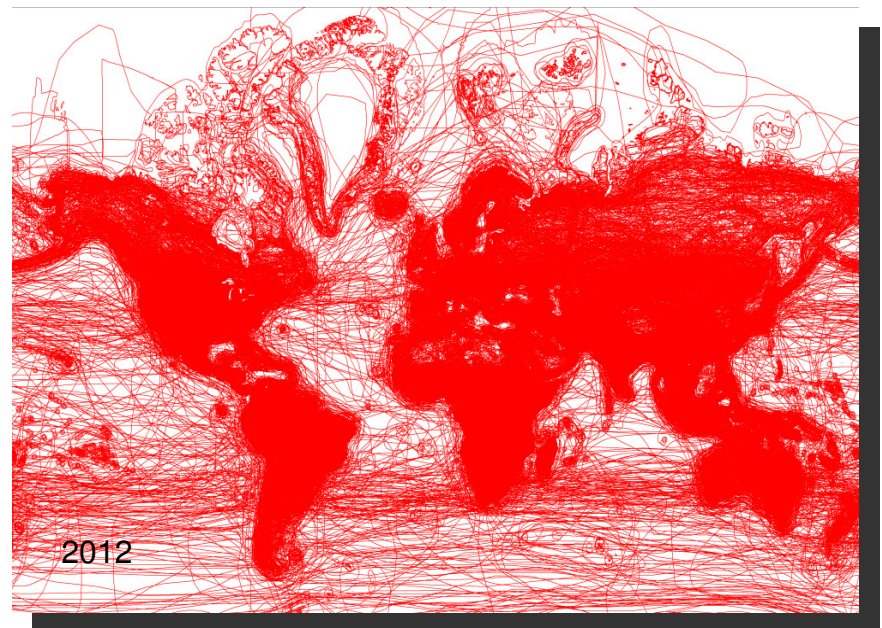
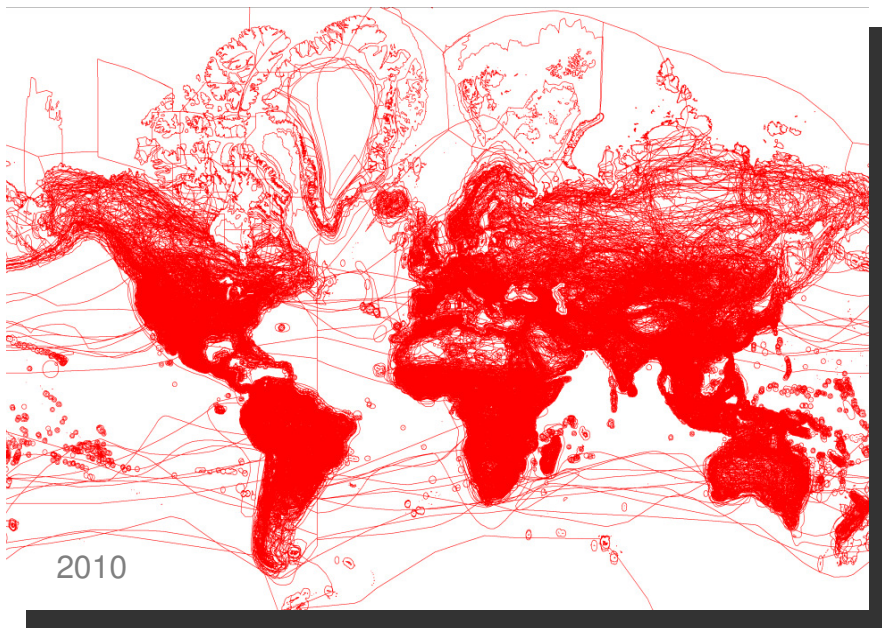
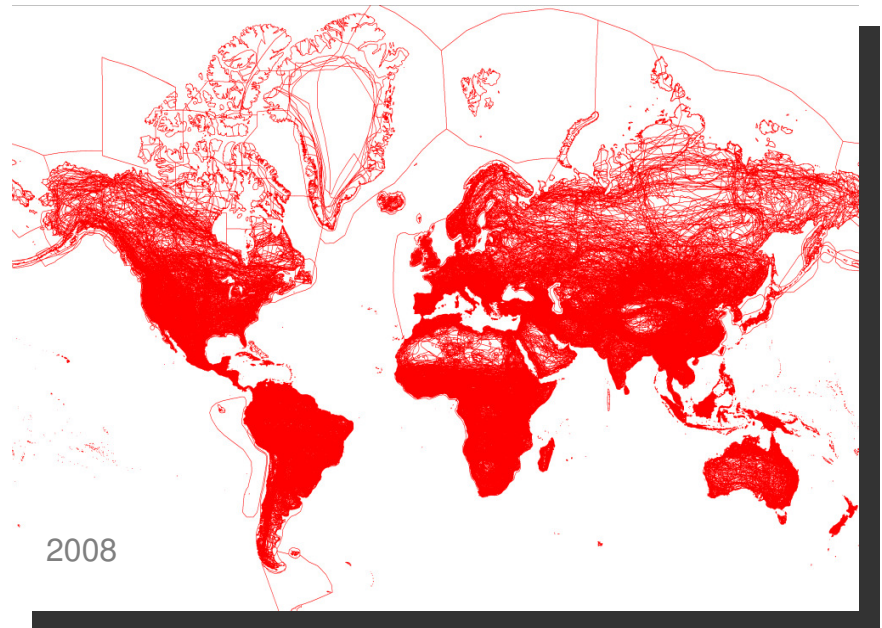
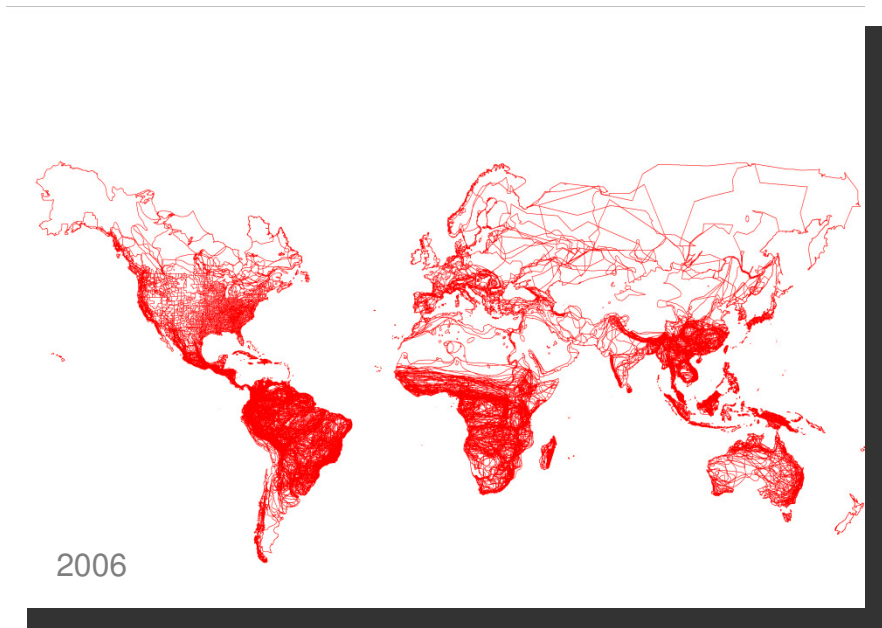


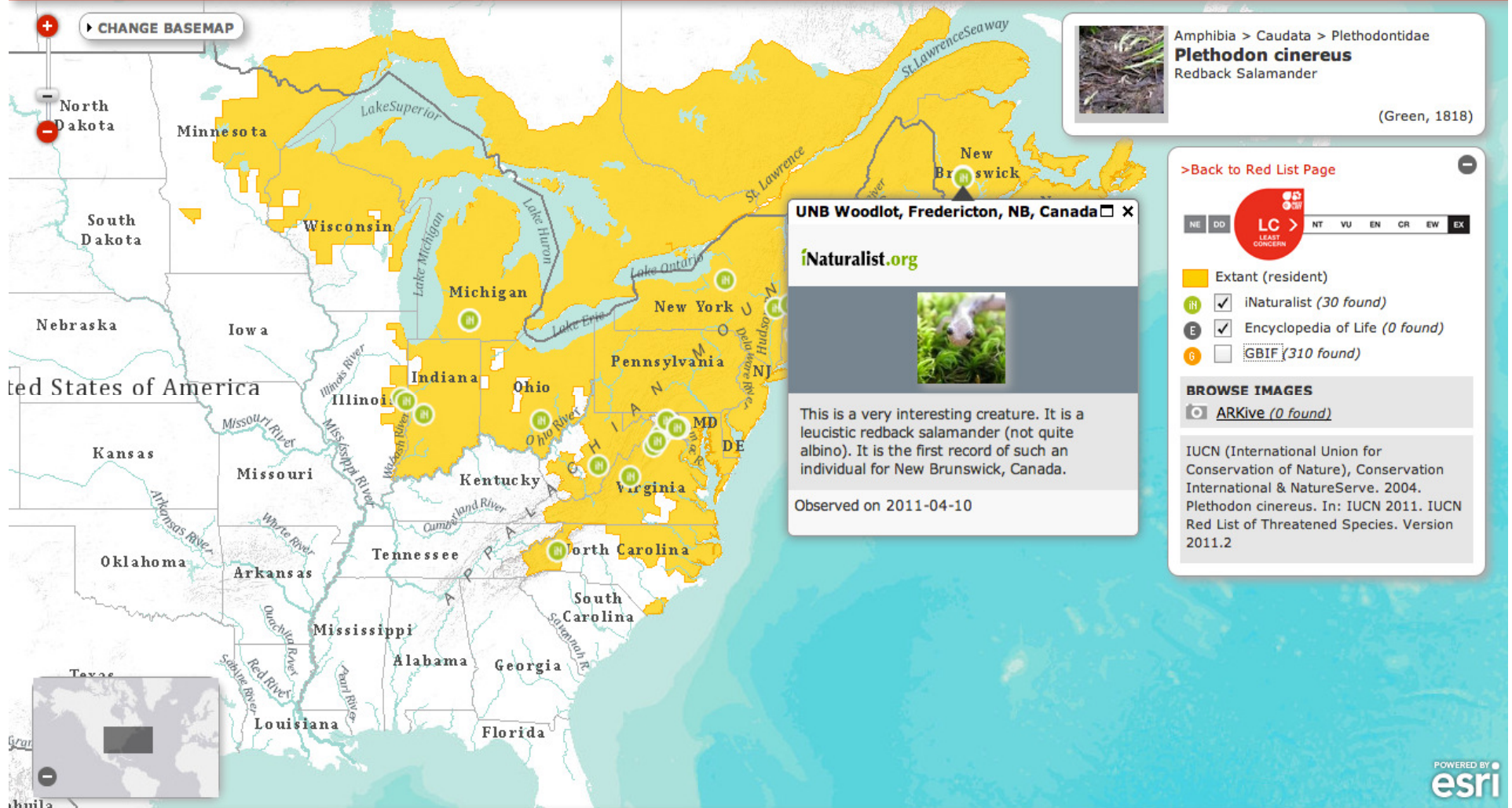
IUCN Red List of Threatened Species

- The world's most comprehensive information source on the conservation status of species
- Not just a list of names and threat categories; includes information on threats (e.g. invasive species), ecological requirements, and conservation actions
- Used as the basis of indicators for measurement of biodiversity trends (e.g. for 15 of the 20 Aichi targets)

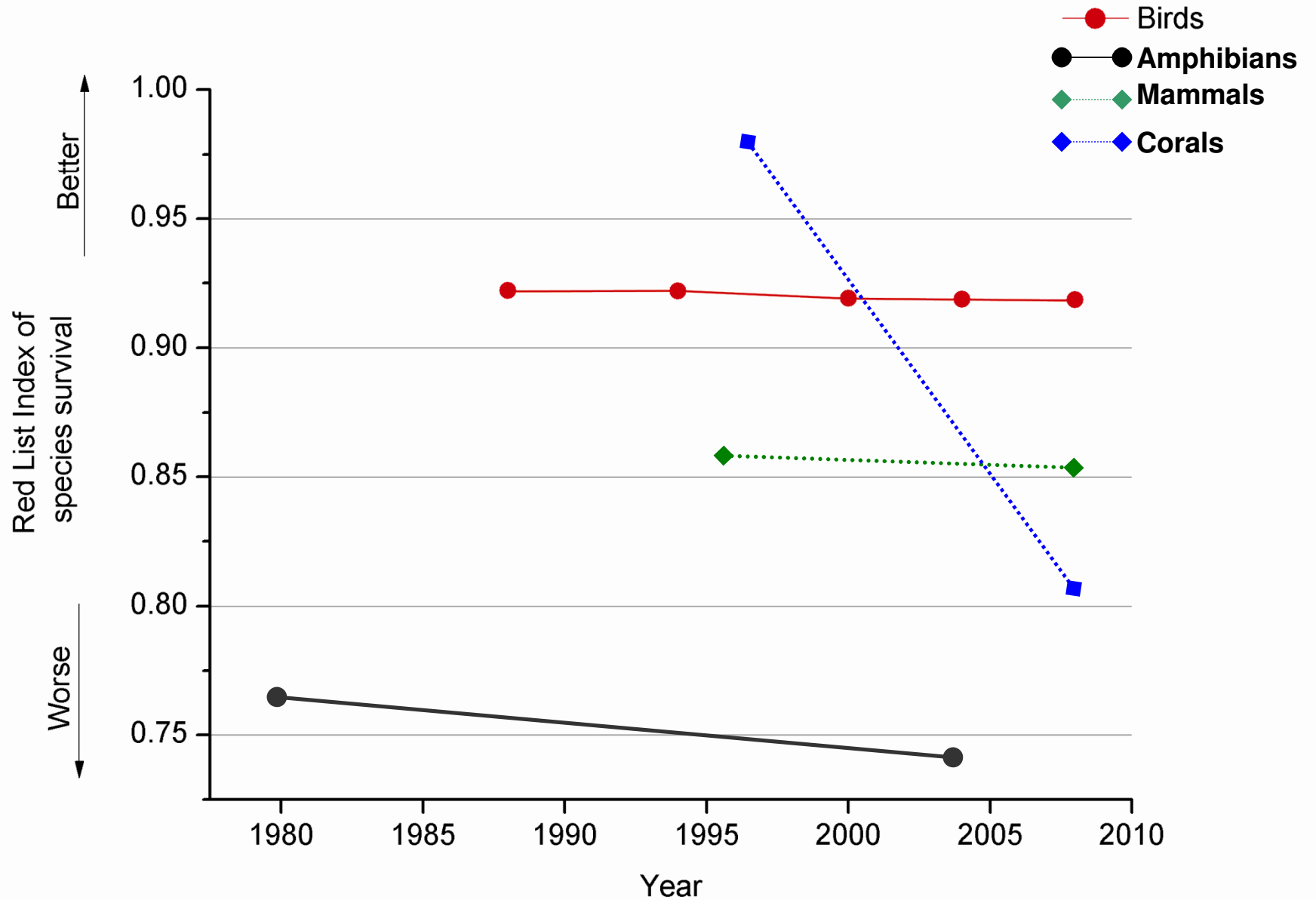


- Number of species on the Red List is increasing
- Increasing taxonomic coverage
- More than 12,000 reassessments in last 3 years
- More complete taxonomic groups are assessed





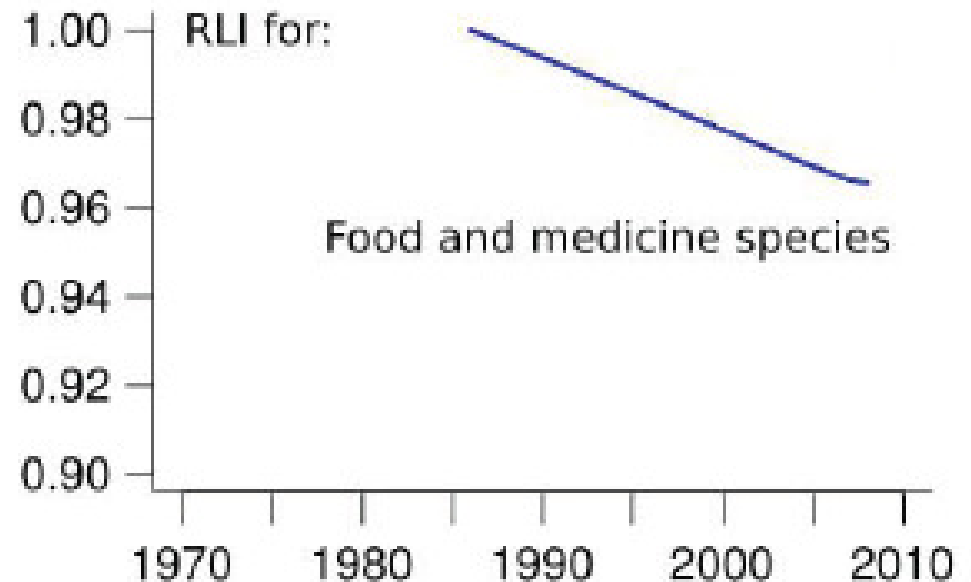
Biodiversity trends (IUCN Red List Index)





Trends in species used for food and medicine

- RLI: overall extinction risk for mammals, birds amphibians used in food and medicine





Global Invasive Species Database



- Free, online, searchable database with a focus on alien species that impact natural ecosystems
- Features comprehensive invasive species profiles
- Multi-lingual functionality: English with limited content in French, Traditional & Simplified Chinese
- Content peer-reviewed by invasive species experts



Global Invasive Species Database: linking to The IUCN Red List

THE IUCN RED LIST OF THREATENED SPECIES Scientific or Common name >GO

HOME SPECIES RANGE OBSERVATION PROTECTED AREAS

CHANGE BASEMAP

Mammalia > Carnivora > Mustelidae
Mustela vison
American Mink
Schreber, 1777

>Back to Red List Page

LC > NT VU EN CR EW EX
LEAST CONCERN

- Extant (resident)
- iNaturalist (7 found)
- Encyclopedia of Life (5 found)
- GBIF (745 found)

BROWSE IMAGES

ARKive (7 found)

POWERED BY esri

IUCN SSC Species Survival Commission

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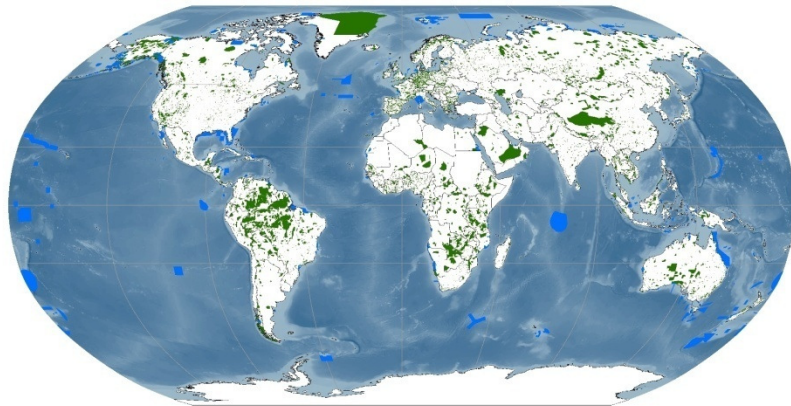


- Partnership between UNEP WCMC and IUCN
- The global platform for the exchange and communication of data and knowledge on the status and trends of protected areas
- Engages full spectrum of stakeholders
- Instrumental in achievement of the Millennium Development Goals and Aichi Biodiversity Targets

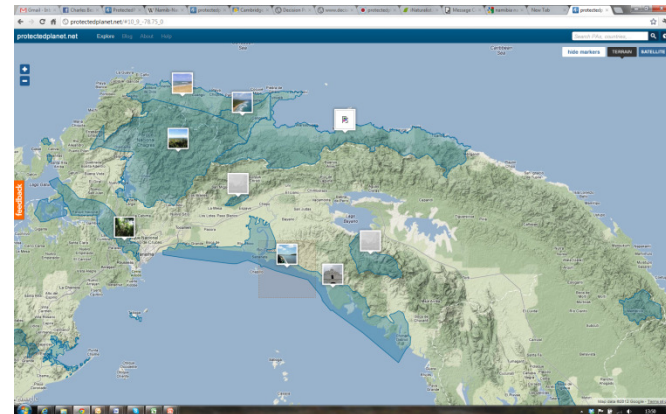




- World Database on Protected Areas
- UN mandated; only global database of protected areas
- 30 years old; c. 200,000 records
- Includes nationally designated parks and protected areas
- World Heritage sites, UNESCO MAB, Ramsar

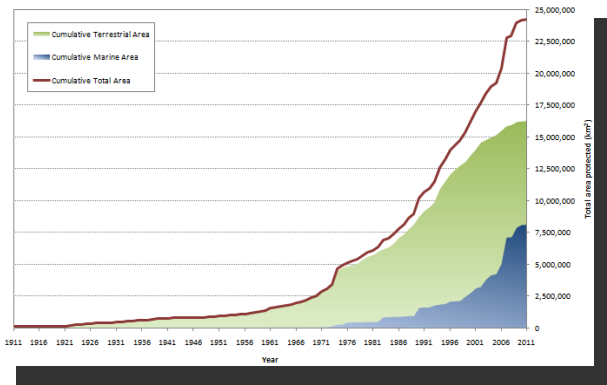


World Database on Protected Areas, 2012



Panamanian protected areas from protectedplanet.net

- Measuring and reporting on protected area effectiveness
 - Status and trends of PA coverage including management effectiveness assessments
 - Measure PA ecoregion representivity, connectivity, governance
 - Protected Planet Report 2012: launch at IUCN WCC and CBD COP11



We are here



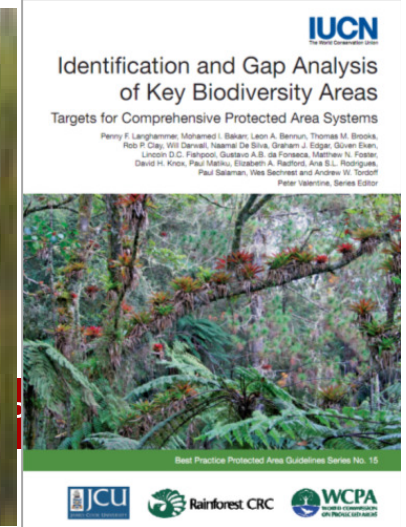
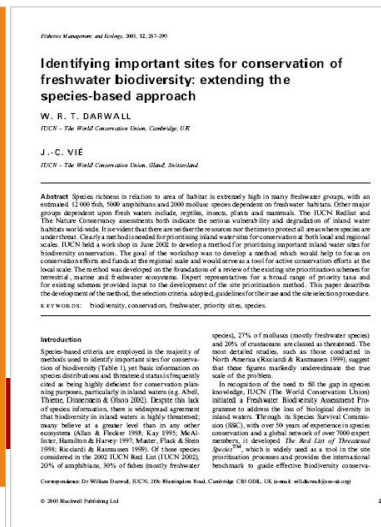
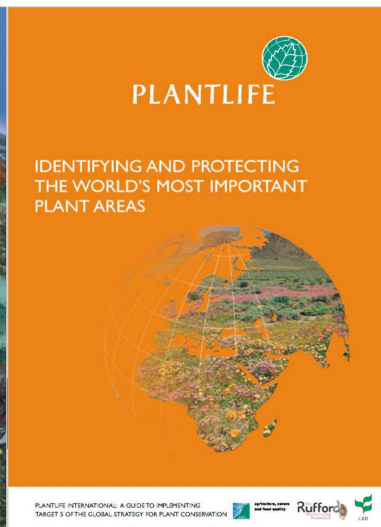
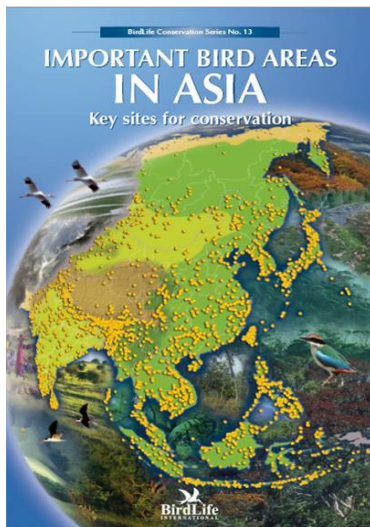
IUCN standard to identify areas of global biodiversity significance ‘key biodiversity areas’

- *Target 11: By 2020, at least 17 per cent of terrestrial and inland water, and 10 per cent of coastal and marine areas, **especially areas of particular importance for biodiversity and ecosystem services**, are conserved through effectively and equitably managed, ecologically representative and well connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscape and seascapes.*



Numerous approaches

- Important Bird Areas
- Important Plant Areas
- Important Freshwater Areas
- Prime Butterflies Areas
- Alliance for Zero Extinction
- Key Biodiversity Areas





Identifying areas of significance for biodiversity

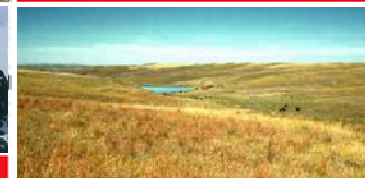
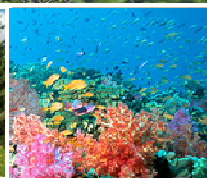
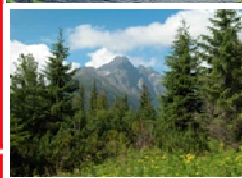
- Aim is to identify **sites of global significance for biodiversity conservation**
- Currently undertaking full consultation to consolidate criteria to identify such sites
- Provide basis for gap analyses – to reinforce existing PA network and highlight research needs
- Facilitates the establishment of strategic and effective conservation measures
- Applicable in terrestrial, freshwater and marine biomes

Red List Home

- Search
- Expert Search
- Introduction
- Partners & Credits
- Red List Overview
- Data Organization
- Summary Statistics
- Sources & Quality
- Categories & Criteria
- Classification Schemes
- Photo Gallery
- References
- Publications & Links
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2013 IUCN Red List of Ecosystems™



Search

*Help Save
Ecosystems*

IUCN

What's new? Last updated on 10 January 2013
© International Union for Conservation of Nature

Contact Information





Why a Red List of Ecosystems?

- Abundant experience with red list categories for species. Red List “explosion” world-wide
- Increased capability of geographical information systems
- Increased availability of remotely-sensed data, covering 20-40 years

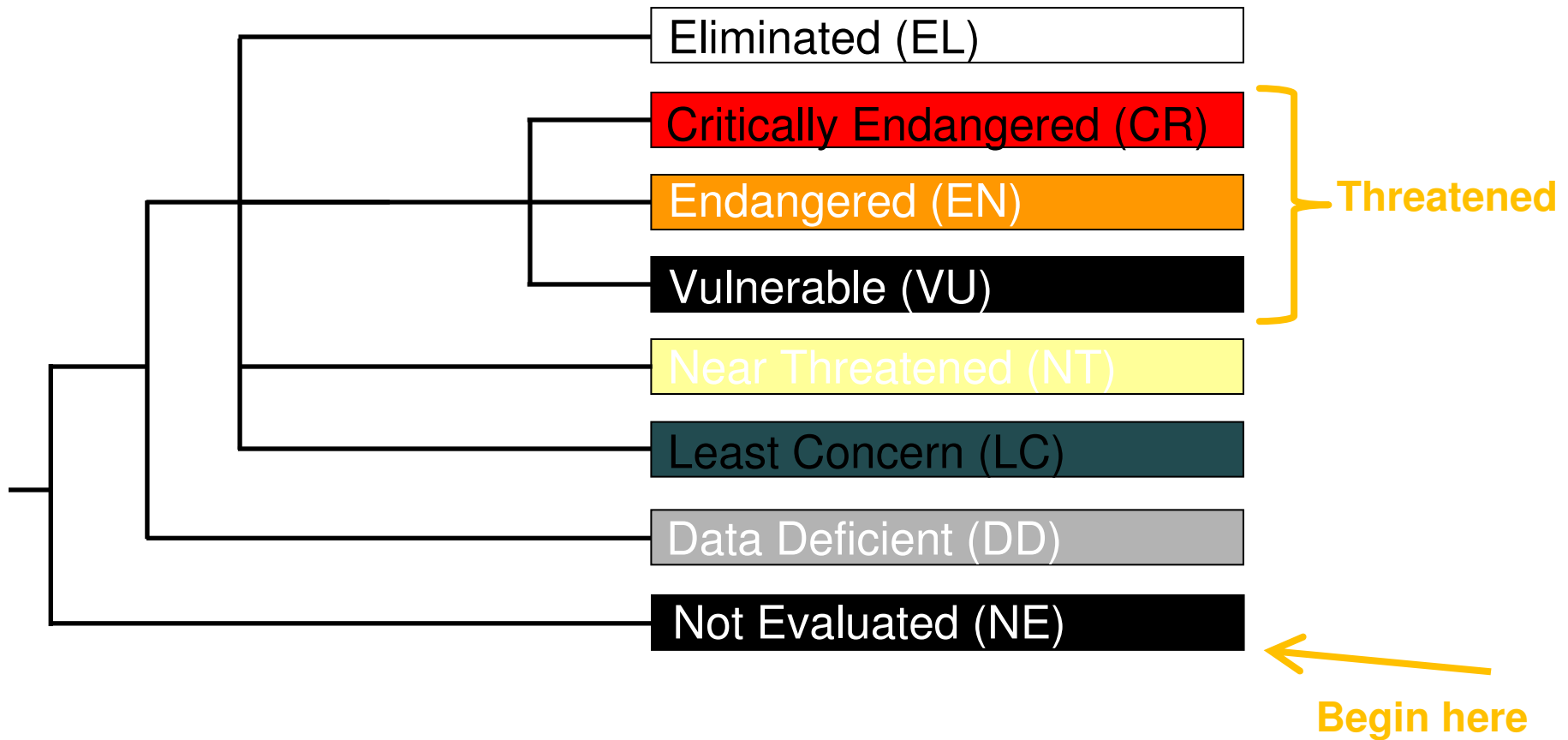


Why focus on ecosystem status?

- Ecosystem loss leads to loss of services: clean water, food, fuel
- Ecosystem loss and degradation might precede species declines (extinction debt)
- Combined with The IUCN Red List of Threatened Species™ an incredibly powerful assessment of biodiversity status

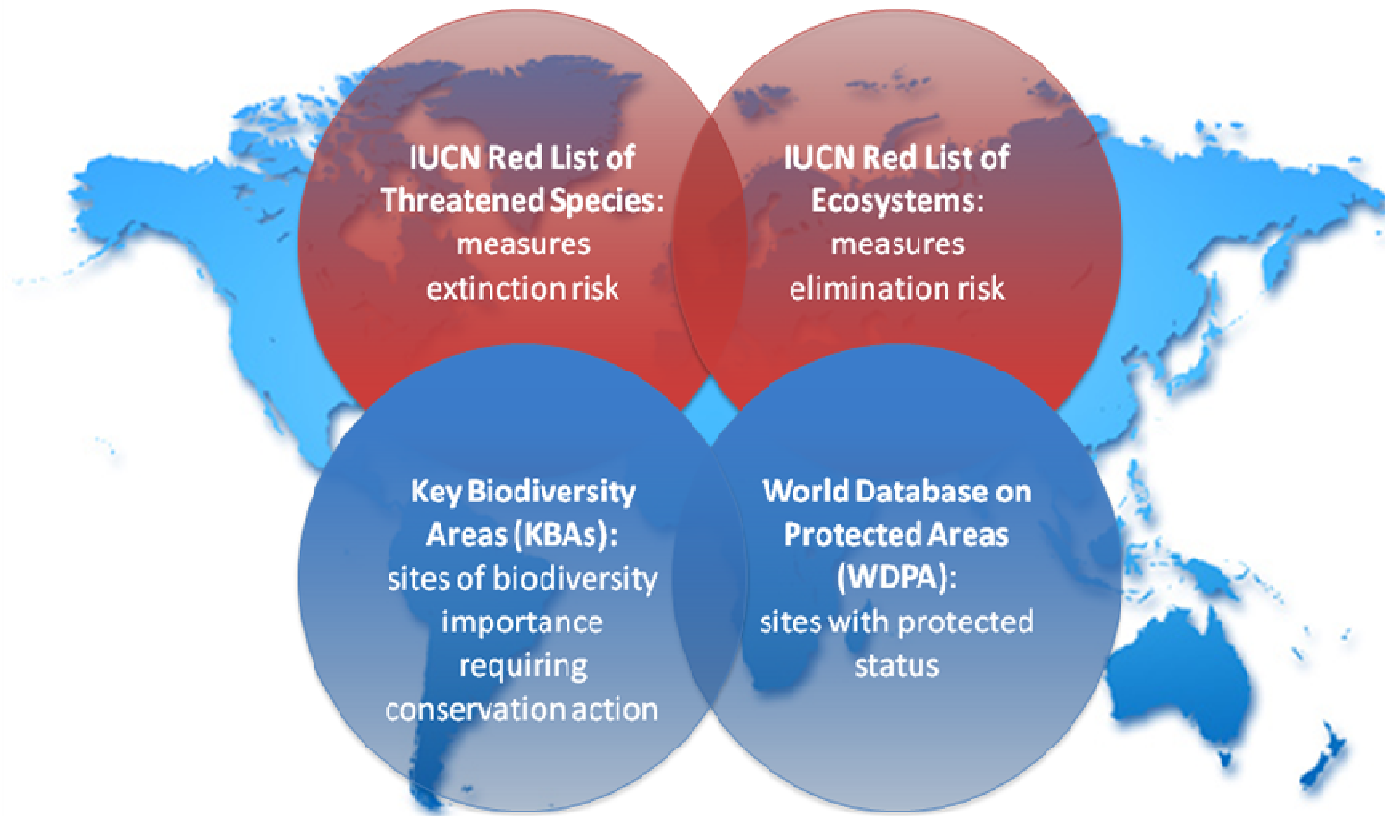


Red List Categories for Ecosystems





The knowledge products *and their integration*





REDLIST THE IUCN RED LIST OF THREATENED SPECIES

HOME SPECIES RANGE PROTECTED AREAS OBSERVATION FUTURE TAB 1 FUTURE TAB 2

Search Red List

CHANGE BASEMAP

North Pacific

Canada

United States

Mexico

Chicago Washington New York

Mexico City

Caracas

Enlarge

Aves > Falconiformes > Accipitridae
 Aves > Falconiformes > Accipitridae
Haliaeetus leucocephalus
australopithecus
 Bald Eagle

> Back to Red List page

LC

Extant (resident)
 Probably Extant (resident)
 Extinct
 Protected Areas

23.9%
 of the species range lies within protected areas







MAP OVERLAYS
 Observation

IUCN SSC ROLEX

Protected Areas

All protected areas

ALL PROTECTED AREAS Results 1-25 of 208 [First](#) | [Previous](#) | [Next](#) | [Last](#)

 <p>Yellowstone National Park 24% coverage</p> <p>Protected Landscape / Seascope</p>	 <p>Yellowstone National Park 24% coverage</p> <p>Habitat / Species Management Area</p>	 <p>Yellowstone National Park 24% coverage</p> <p>National Park</p>	<p>Strict Nature Reserve</p> <p>Wilderness Area</p> <p>National Park</p> <p>Natural Monument or Feature</p> <p>Habitat / Species Management Area</p> <p>Protected Landscape / Seascope</p> <p>Sustainable Area</p> <p>★ This protected area is critically important for this species</p>
 <p>Yellowstone National Park 24% coverage</p> <p>Protected Landscape / Seascope</p>	 <p>Yellowstone National Park 24% coverage</p> <p>Habitat / Species Management Area</p>	 <p>Yellowstone National Park 24% coverage</p> <p>National Park</p>	

Results 1-25 of 208 [First](#) | [Previous](#) | [Next](#) | [Last](#)

1

What is ECOLEX ?

To access information on environmental and natural resources law from one single source

2

Why ECOLEX ?

ECOLEX allows policy makers, lawyers, NGOs and researchers to access the legal basis for sustainable development from a single source

3

What does it offer ?

Online access:
www.ecolex.org

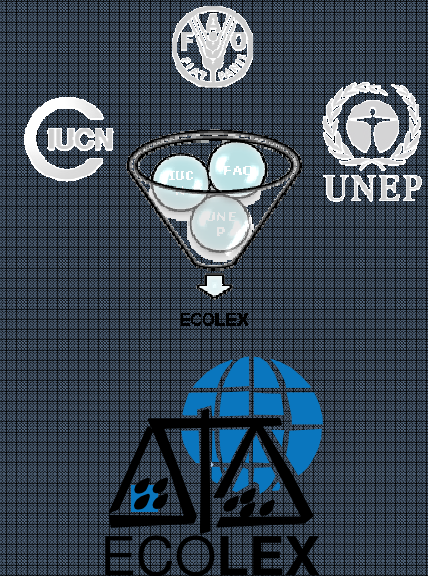
Addresses all areas of law (treaties, national legislation, court decisions and law/policy literature)

Covers all major natural resources and environmental fields

4

ECOLEX who's who

A partnership between
FAO, IUCN and UNEP





ECOLEX subject areas

- Agriculture
- Air & atmosphere
- Cultivated plants
- Energy
- Environment general
- Fisheries
- Food
- Forestry
- Land & soil
- Livestock
- Mineral resources
- Sea
- Waste & Hazardous Substances
- Water
- Wild species & ecosystems



Proposed Natural Resource Governance framework

- Currently no single consistent framework to analyze and compare how well specific governance arrangements function
- IUCN's draft Programme 2013-2016 commits to develop a new framework for assessing natural resource governance
- To engage IUCN's strong network of social scientists and representatives of indigenous peoples and local communities
- To make better and fairer decisions to underpin sustainable management of natural resources
- Contribution to Aichi targets 14, 15, 16 under Goal D: *Enhance benefits to all from biodiversity and ecosystem services*



Proposed Index of Human Dependency on Nature

- Aims to systematically collect and analyse data on the scope and contribution of ecosystems and wild resources to rural and coastal livelihoods
- To complement information from The IUCN Red List which details how individual species are used

SIS

Kevin Smith
IUCN

Phoenix canariensis (NE)
(Canary Island Date Palm)

Status: Draft
Last Modified: 08 Feb 2012, 5:23 PM
Modified: UTC by Kevin Smith

Global Summary

- Construction or structural materials
- Wearing apparel, accessories
- Other household goods
- Handicrafts, jewellery, etc.
- Pets/display animals, horticulture
- Research
- Sport hunting/specimen collecting
- Establishing ex-situ production *
- Other (free text)
- Unknown

Working Sets

- None
- My Working Sets
- FW_Shrimps_Asia_Aust
- HichARCS China site species
- HighARCS
- HighARCS Buxa site species

Read Only Mode | New | Save | Attachments

Use and Trade

Is there harvest from captive/cultivated sources of this species?

**IUCN Red List of
Threatened Species:**
measures extinction
risk

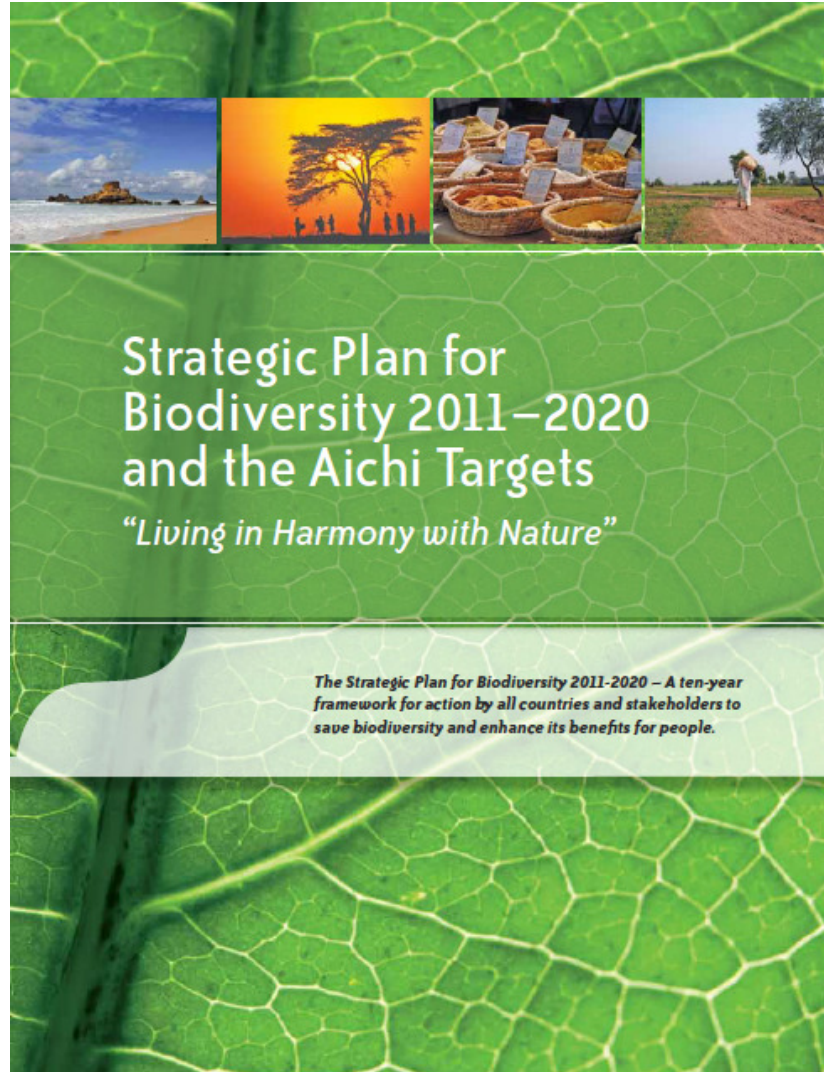
**IUCN Red List of
Ecosystems:**
measures elimination
risk

**Human Dependency
on Nature:**
values nature's direct
contribution to people's
livelihoods

**Key Biodiversity Areas
(KBAs):**
sites of biodiversity
importance requiring
conservation action

**World Database on
Protected Areas
(WDPA):**
sites with protected
status

Natural Resource Governance Framework:
a set of criteria around rights, equity and benefits issues



Strategic Plan for Biodiversity 2011–2020 and the Aichi Targets

“Living in Harmony with Nature”

The Strategic Plan for Biodiversity 2011-2020 – A ten-year framework for action by all countries and stakeholders to save biodiversity and enhance its benefits for people.



Thanks!

- UNEP
- The Gordon and Betty Moore Foundation
- Government of France

