

Workshop on understanding and making use of data outputs from the IUCN PanAfrica FW Biodiversity Assessment



- Reminder why we need information on FW species
- Types of data collated
- Understanding the Red List Categories and Criteria
- Navigating the IUCN Red List Website
- Conducting a species search on the IUCN Red List
- Downloading results of a Red List species search
- Downloading species distributions as shape files
- Understanding how species distribution maps are created
- The online Biobrowser - overview
- Some basic spatial analyses
- Application of data to improved PA design
- Key Biodiversity Areas (KBAs)
- Application to EIAs

Species information collated

- For each species we collated:

- Taxonomy
- Distribution - digital maps
- Population
- Habitat and Ecology
- Major threats
- Utilisation by people
- Red List status
- Bibliography....

Species Group	# species assessed
Fishes	2831
Molluscs	614
Odonates	709
Crabs	107
Plants	1357
Combined	5618

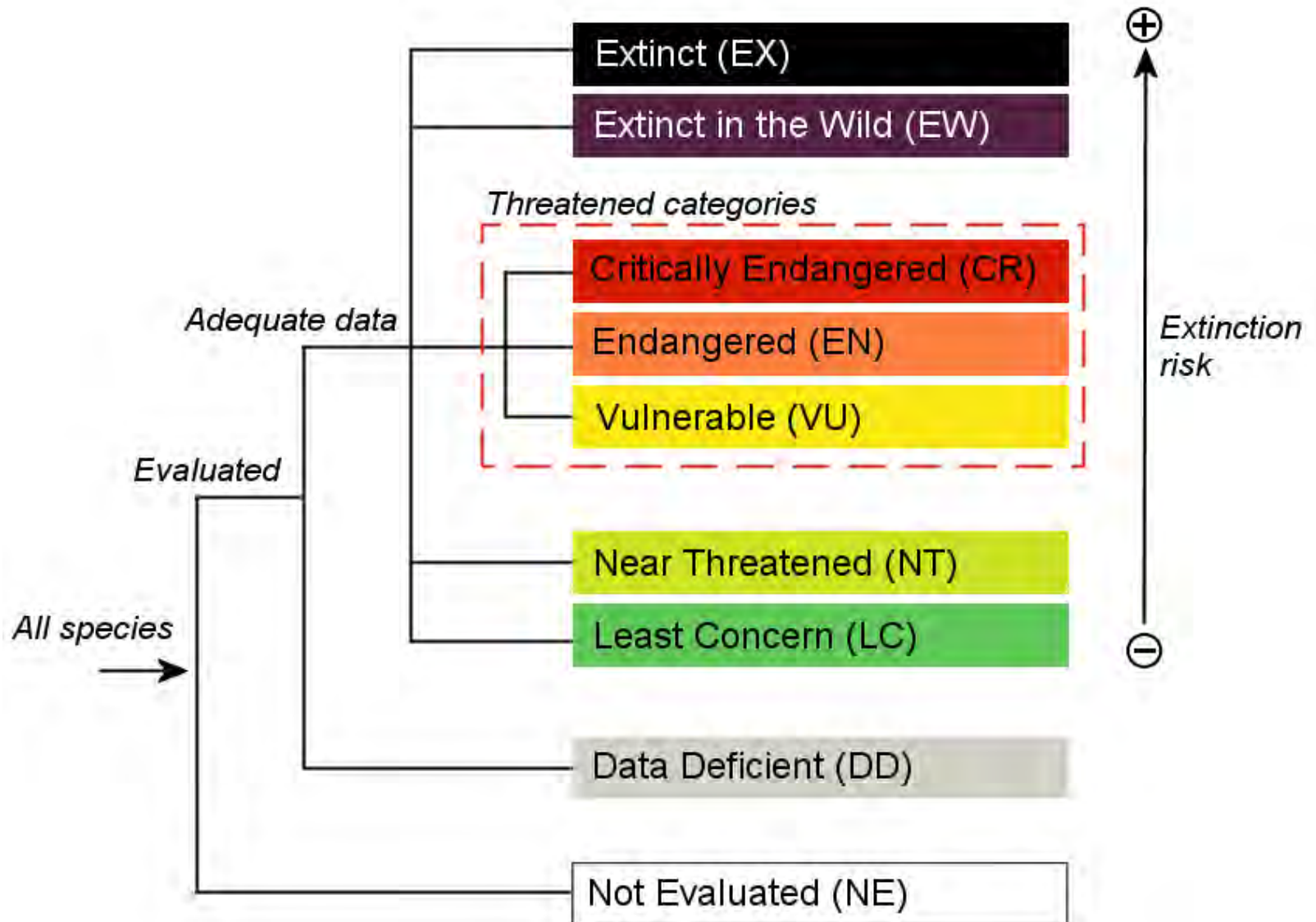
- Expert reviewed
- Threatened and non threatened species recorded

The IUCN Red List Assessment: An estimate of **extinction risk**

What is the likelihood of a species becoming extinct in the near future, given current knowledge about population trends, range, and recent, current or projected threats?



Red List Categories of Threat





A taxon is **THREATENED** when the best available evidence indicates that it meets any of the criteria for either **Critically Endangered**, **Endangered** or **Vulnerable**.

Critically Endangered (CR)

Considered to be facing an **extremely high** risk of extinction in the wild

Endangered (EN)

Considered to be facing a **very high** risk of extinction in the wild.

Vulnerable (VU)

Considered to be facing a **high** risk of extinction in the wild



Which category?

Use quantitative criteria (or thresholds) to distinguish between these threatened categories



A taxon that has been evaluated against the criteria but and does not qualify for a **Threatened** category and is not **Extinct** or **Extinct in the Wild** is either:

Near Threatened (NT)

When it is **close to qualifying** for a **threatened category**, or is **likely to qualify** in the **near future**.

Least Concern (LC)

When it does not qualify for a threatened category or Near Threatened. **Widespread** and **abundant** taxa are included in this category.

Data Deficient (DD)

When there is **inadequate information** to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. (Taxonomic, lack of information, unknown distribution). It does **NOT** mean it is not threatened



Red List Categories for Threatened species

Critically Endangered (CR)

CR taxa are considered to be facing an **extremely high risk of extinction** in the wild



Photo: © Zeb S. Hogan

Pangasianodon gigas

Endangered (EN)

EN taxa are considered to be facing a **very high risk of extinction** in the wild



Austroglanis barnardi

Photo: © SAIAB/Roger Bills

Vulnerable (VU)

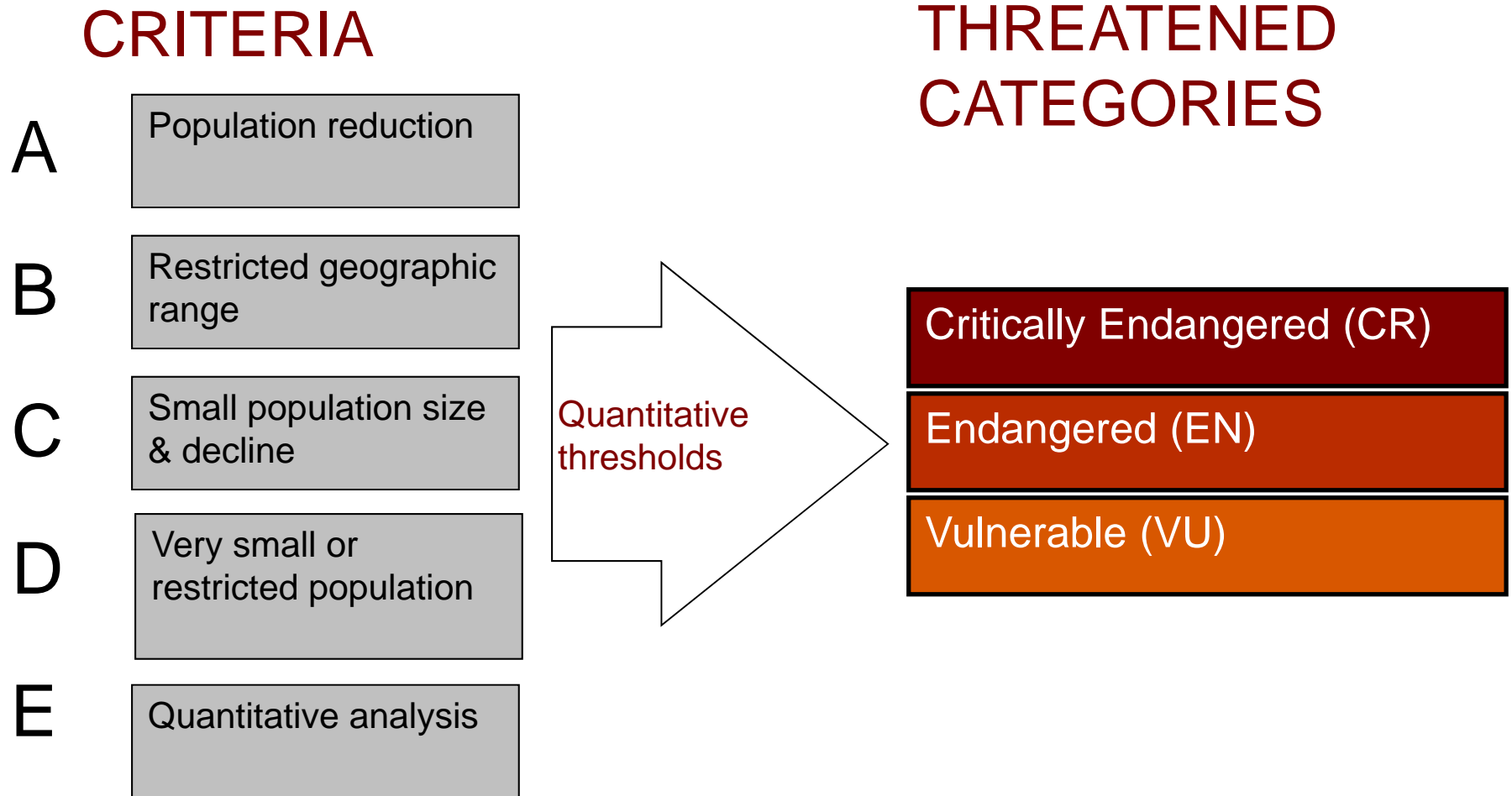
VU taxa are considered to be facing a **high risk of extinction** in the wild



Oreochromis andersonii

Photo: © SAIAB/Denis Tweddle

Nature of the Criteria





See 1 page summary sheet for full criteria thresholds:

Use any of the Criteria A–E	Critically Endangered	Endangered	Vulnerable
A. Population reduction			
Declines measured over the longer of 10 years or 3 generations			
A1	≥ 90%	≥ 70%	≥ 50%
A2, A3 & A4	≥ 80%	≥ 50%	≥ 30%
A1. Population reduction observed, estimated, inferred, or suspected in the past where the causes of the reduction are clearly reversible AND understood AND have ceased, based on and specifying any of the following: <ul style="list-style-type: none"> (a) direct observation (b) an index of abundance appropriate to the taxon (c) a decline in area of occupancy (AOO), extent of occurrence (EOO) and/or habitat quality (d) actual or potential levels of exploitation (e) effects of introduced taxa, hybridization, pathogens, pollutants, competitors or parasites. 			
A2. Population reduction observed, estimated, inferred, or suspected in the past where the causes of reduction may not have ceased OR may not be understood OR may not be reversible, based on (a) to (e) under A1.			
A3. Population reduction projected or suspected to be met in the future (up to a maximum of 100 years) based on (b) to (e) under A1.			
A4. An observed, estimated, inferred, projected or suspected population reduction (up to a maximum of 100 years) where the time period must include both the past and the future, and where the causes of reduction may not have ceased OR may not be understood OR may not be reversible, based on (a) to (e) under A1.			
B. Geographic range in the form of either B1 (extent of occurrence) AND/OR B2 (area of occupancy)			
B1. Extent of occurrence (EOO)	< 100 km ²	< 5,000 km ²	< 20,000 km ²
B2. Area of occupancy (AOO)	< 10 km ²	< 500 km ²	< 2,000 km ²
AND at least 2 of the following:			
(a) Severely fragmented, OR Number of locations	= 1	< 5	< 10
(b) Continuing decline in any of: (i) extent of occurrence; (ii) area of occupancy; (iii) area, extent and/or quality of habitat; (iv) number of locations or subpopulations; (v) number of mature individuals.			
(c) Extreme fluctuations in any of: (i) extent of occurrence; (ii) area of occupancy; (iii) number of locations or subpopulations; (iv) number of mature individuals.			
C. Small population size and decline			
Number of mature individuals	< 250	< 2,500	< 10,000
AND either C1 or C2:			
C1. An estimated continuing decline of at least:	25% in 3 years or 1 generation	20% in 5 years or 2 generations	10% in 10 years or 3 generations
(up to a max. of 100 years in future)			
C2. A continuing decline AND (a) and/or (b):			
(ai) Number of mature individuals in each subpopulation:	< 50	< 250	< 1,000
OR			
(aii) % individuals in one subpopulation =	90–100%	95–100%	100%
(b) Extreme fluctuations in the number of mature individuals.			
D. Very small or restricted population			
Either:			
Number of mature individuals	< 50	< 250	D1. < 1,000 AND / OR
Restricted area of occupancy			D2. Typically: AOO < 20 km ² or number of locations < 5
E. Quantitative Analysis			
Indicating the probability of extinction in the wild to be:	> 50% in 10 years or 3 generations (100 years max.)	> 20% in 20 years or 5 generations (100 years max.)	> 10% in 100 years

Criteria A - Population Reduction:

Sub-criteria	CR	EN	VU
A1 Past decline (& ceased)	> 90 %	> 70 %	> 50 %
A2 Past decline (& NOT ceased)	> 80 %	> 50 %	> 30 %
A3 Future decline			
A4 Past & future			

Time frame:

3 generations or 10 years which ever is longer! (max 100 years)

Decline based on **any** of:

- (a) Direct observation (*not for sub-criterion A3 – future reduction*)
- (b) An index of abundance appropriate to the taxon.
- (c) A decline in:
 - area of occupancy;
 - extent of occurrence; and/or
 - quality of habitat.
- (d) Actual or potential levels of exploitation.
- (e) The effects of:
 - introduced taxa
 - hybridization
 - pathogens
 - pollutants
 - competitors
 - parasites



The IUCN **Red List of Threatened Species™**

2011.1

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Amphibians
Mammals
Europe
Mediterranean
Freshwater



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LEAST
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NEAR
THREATENED

NT

VULNERABLE

VU

ENDANGERED

EN

CRITICALLY
ENDANGERED

CR

EXTINCT
IN THE WILD

EW

EXTINCT

EX



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ARABIAN ORYX
Oryx leucoryx

© D Mallon/Antelope Specialist Group



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[Home](#) » [Initiatives](#) » Freshwater

Freshwater

The Freshwater Biodiversity Unit of the IUCN's [Species Programme](#) aims to put in place a factual basis for efforts to conserve and manage freshwater biodiversity.

An estimated 126,000 described species rely on freshwater habitats, including species of fishes, molluscs, reptiles, insects, plants, and mammals. With the inclusion of undescribed species, this number could rise to over one million.

Species richness in relation to area of freshwater habitats is extremely high in many freshwater groups. Freshwater fishes comprise almost 45% of all fishes and freshwater molluscs about 25% of all molluscs. An estimated 15,000 fish (including brackishwater species), 4,300 amphibians, 5,600 Odonata (dragonflies and damselflies), and 5,000 mollusc species depend on freshwater habitats. Other major groups dependent upon freshwater include reptiles, insects, plants, and mammals.

The importance of freshwater species, ecosystems and services to human livelihoods and wellbeing is increasingly being recognised, and the FBU works in a number of areas to provide the information to support decisions for the protection of wetland species and livelihoods.

To conserve and manage freshwater biodiversity, the FBU works in conjunction with the SSC's Specialist Groups (including the [IUCN/SSC/WI Freshwater Fish Specialist Group](#), the [Dragonfly Specialist Group](#) and the [Mollusc Specialist Group](#)), the Species Information Service, the [Global Amphibian Assessment Programme](#), regional scientists, experts in freshwater biodiversity and policy makers. We have a key partnership with Conservation International's [Science & Knowledge division](#), with which we are working to undertake regional and global freshwater assessments.

For further information on any of our projects, please visit [our website](#).



Freshwater

on the IUCN Red List

Assessment Process

Pan-Africa

Central Africa

Eastern Africa

Northern Africa

Northeastern Africa

Southern Africa

Western Africa

Description of Data

Citation and Photos

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IUCN Red List Status

Continental Africa supports a significant proportion of the world's freshwater species, with fishes particularly well represented.

Estimated numbers of extant inland water-dependent species by major taxonomic group

Taxon	Number of described species	Number of species in Africa	% of global total found in Africa
Fishes	~15,000	2831	19%
Molluscs	~ 5,000	594	12%
Odonates	5,680	709	12%
Crabs	c.1,300	117	9%

Of the 4,526 species endemic to Continental Africa, one fifth are threatened with extinction. The study found that 21% of all freshwater taxa are globally threatened, including 22% of fishes, 28% of molluscs, 23% of crabs, 25% of aquatic plants and 9% of dragonflies and damselflies. These results are the latest released during the International Year of Biodiversity, highlighting the perilous state of our natural environment.

Summary of the IUCN Red List Category classifications at the global scale by taxonomic groupings

Taxon	Total	EX	EW	CR	EN	VU	NT	LC	DD
Fishes	2788	0.1%	0%	4%	5%	13%	3%	57%	19%
Molluscs	538	3%	0%	9%	12%	7%	6%	34%	30%
Odonates	625	0%	0%	2%	2%	5%	3%	72%	15%
Crabs	117	0%	0%	2%	9%	12%	2%	55%	20%
Aquatic plants	471	0%	0.2%	6%	5%	13%	8%	49%	18%

IUCN Red List Categories: EX - Extinct, EW - Extinct in the Wild, CR - Critically Endangered, EN - Endangered, VU



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Pan-Africa

IUCN Red List Status

Geographic Patterns

Major Threats

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Central Africa

Eastern Africa

Northern Africa

Northeastern Africa

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Western Africa

Description of Data

Citation and Photos



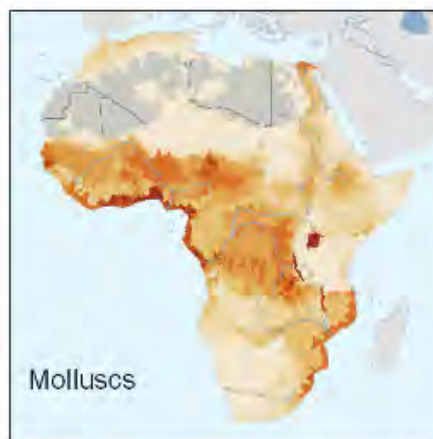
Romulea multisulcata © Nick Helme

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Geographic Patterns

Centres of species richness

Species distribution maps for fishes, molluscs, odonates and crabs were overlaid to identify those river basins holding the highest richness of species for each taxonomic group.



Oreochromis karongae © [Prof. George F. Turner](#)

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Description of Data

Citation and Photos

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Aphyosemion thysi

NOT EVALUATED	DATA DEFICIENT	LEAST CONCERN	NEAR THREATENED	< VULNERABLE >	ENDANGERED	CRITICALLY ENDANGERED	EXTINCT IN THE WILD	EXTINCT
NE	DD	LC	NT	VU	EN	CR	EW	EX

[Summary](#)
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Taxonomy [\[top\]](#)

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINODONTIFORMES	NOTHOBRANCHIIDAE

Scientific Name:	<i>Aphyosemion thysi</i>
Species Authority:	Radda & Huber, 1978
Taxonomic Notes:	Subgenus (<i>Mesoaphyosemion</i>).


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[Assessment Information](#)
[Geographic Range](#)
[Population](#)
[Habitat and Ecology](#)
[Threats](#)
[Conservation Actions](#)

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Assessment Information [\[top\]](#)

Red List Category & Criteria:	Vulnerable B1ab(iii)+2ab(iii) ver 3.1
Year Assessed:	2009.0
Assessor/s:	Moelants, T.
Evaluator/s:	Brummett, R., Mbe Tawe, A.N., Denning Touokong, C., Reid, G.M., Snoeks, J. Staissny, M., Moelants, T., Mamonekene, V., Ndodet, B., Ifuta, S.N.B., Chilala, A., Monsembula, R., Ibala Zamba, A., Opoye Itoua, O., Pouomogne, V., Darwall, W. & Smith, K.
Contributor/s:	
Justification:	<i>Aphyosemion (Mesoaphyosemion) thysi</i> is known from fewer than 10 localities in the Mossendjo - Komono area, in the Louesse - Niari River system, southwestern Congo-Brazzaville. The species is threatened by deforestation caused by timber exploitation. Both the EOO and AOO qualify for the Vulnerable status.

Geographic Range [top]

Range Description:	A Lower Guinea endemic, found in the Mossendjo - Komono area, in the Louesse - Niari River system, southwestern Congo.
Countries:	Native: Congo
Range Map:	(click map to view full version) 

Population [top]

Population:	No information available.
Population Trend:	? Unknown

Habitat and Ecology [top]

Habitat and Ecology:	<i>Aphyosemion thysi</i> is found in brooks and small streams in the hilly rainforest (Wildekamp <i>et al.</i> 1986). It is a benthopelagic, non-migratory species. <i>Aphyosemion (Mesoaphyosemion) thysi</i> is not a seasonal killifish. This species is difficult to maintain in aquarium (Huber 1996).
Systems:	Freshwater

Threats [top]

Major Threat(s):	The species is threatened by deforestation caused by timber exploitation.
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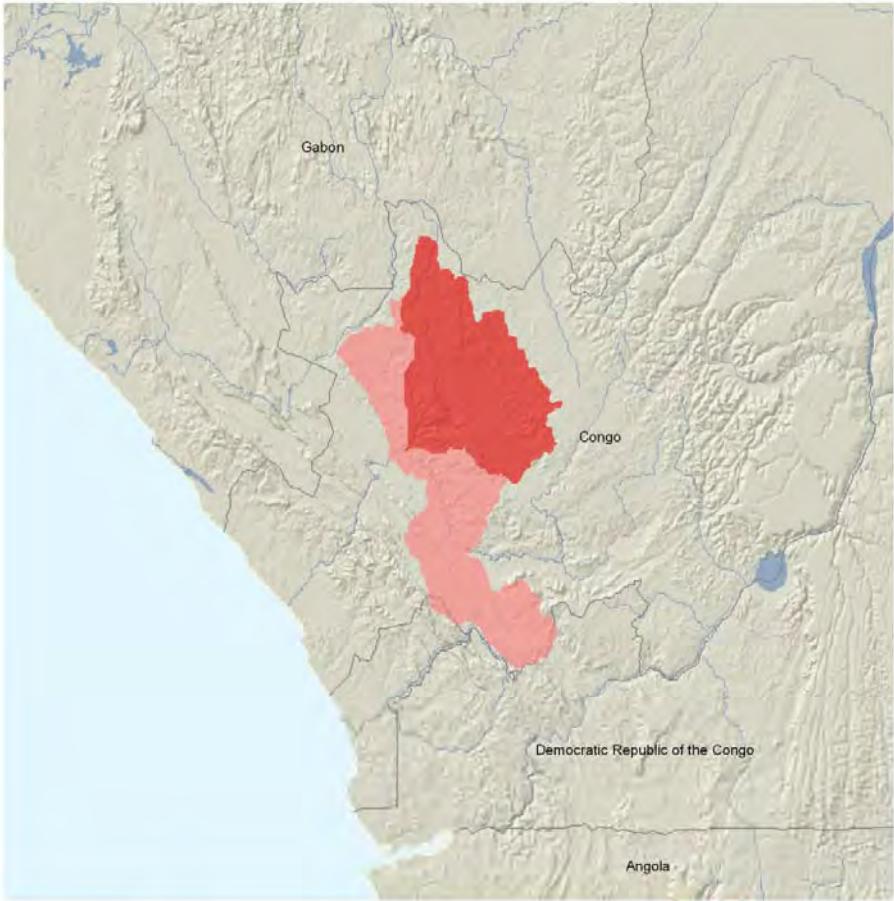
Conservation Actions [top]

Conservation Actions:	None known.
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Citation: Moelants, T. 2009.0. *Aphyosemion thysi*. In: IUCN 2010. IUCN Red List of Threatened Species. Version 2010.4. <www.iucnredlist.org>. Downloaded on **28 October 2010**.

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Aphyosemion thysi

range type (native)

- Extant
- Probably extant

HE DD LC NT **< VU >** EN CR EW EX

gall stereographic central point: 0°, 0°
map created 08/12/2010



data source: (See spatial data for detailed source information)
IUCN (International Union for Conservation of Nature)

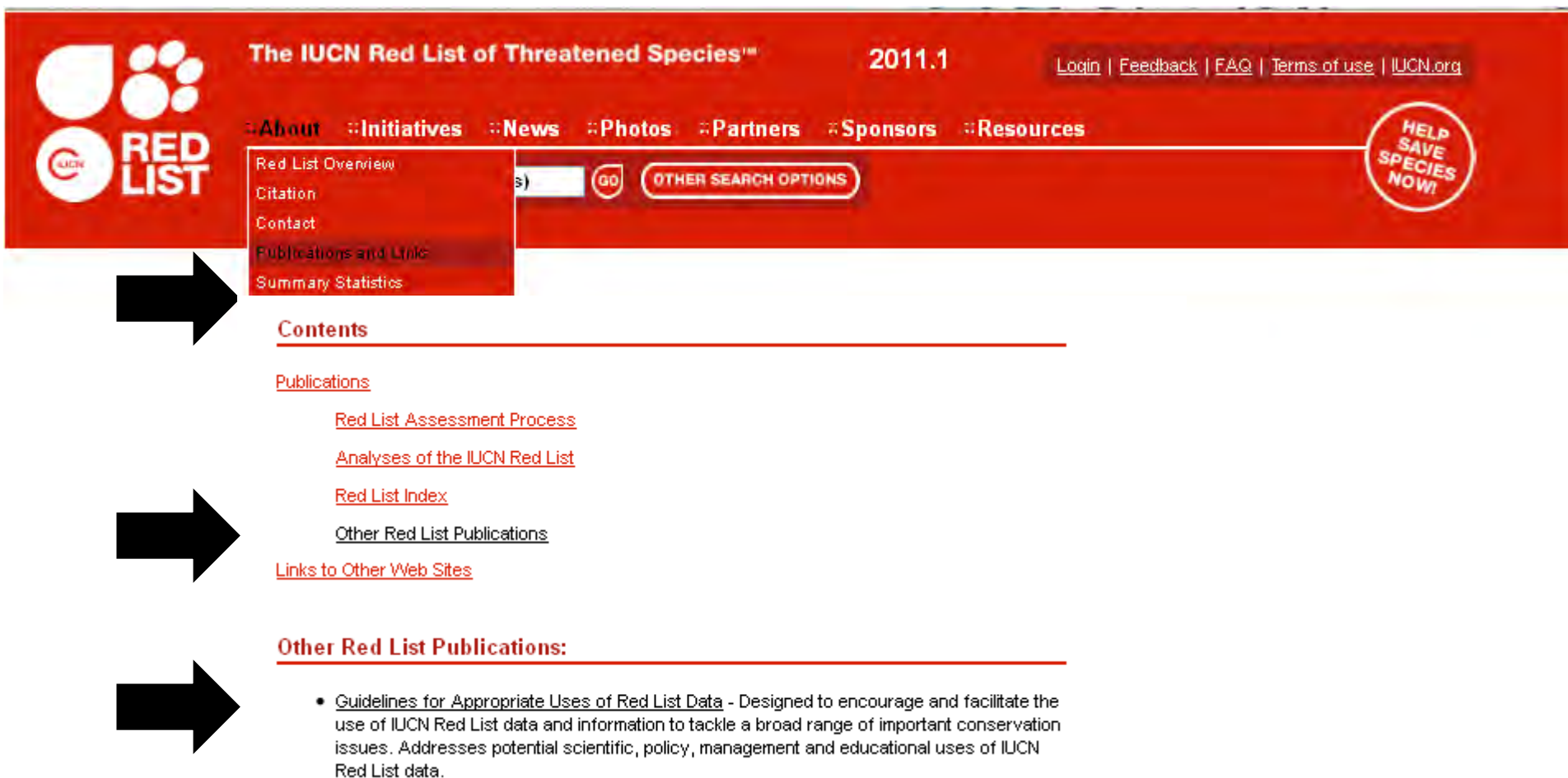
Mapped to river catchments and lake boundaries



The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.

Use of Red List data

Download document 'Guidelines for appropriate use of Red List data'



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Other Red List Publications:

- Guidelines for Appropriate Uses of Red List Data - Designed to encourage and facilitate the use of IUCN Red List data and information to tackle a broad range of important conservation issues. Addresses potential scientific, policy, management and educational uses of IUCN Red List data.

Key Facts, e.g.:

- Not just threatened species on the Red List
- Not all species are assessed
- The Red List assessment is a measure of extinction risk only
- The Red List is not, on its own, a system for setting conservation priorities

Appropriate use of the Red List, e.g.:

- Informing development of national threatened species lists, action plans etc.
- Guiding site level evaluation, the Red List is a key input for an EIA.
- Determining extinction rates across globally and comprehensively assessed species categories

Inappropriate use of the Red List, e.g.:

- Automatically linking a legislative response (e.g. banning trade) to the inclusion of a species in a particular Red List category
- Relying solely on the global Red List status for local planning (e.g., Developing a harvest plan for a local plant population based solely on the global Red List status)
- Assuming that the IUCN Red List provides a comprehensive picture of all the species that are threatened.

How to search the Red List website

Go to - www.iucnredlist.org

Two search options:

1. Simple species name search
2. Detailed search



1

Enter Red List search term

2

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EX



SPINY-FLANKED CHAMELEON

Trioceros laterispinis

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NOW!***Tor putitora*** (Putitor Mahseer)Status: Endangered A4acde [ver 3.1](#)

Pop. trend: decreasing

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NOW!***Hypseobarbus mussullah*** (Hump Backed Mahseer)Status: Endangered B2ab(iii,v) [ver 3.1](#)

Pop. trend: decreasing

Tor kulkarnii (Dwarf mahseer)Status: Endangered B1ab(iii)+2ab(iii) [ver 3.1](#)

Pop. trend: unknown

Tor yunnanensisStatus: Endangered A1ac, B1+2e [ver 2.3](#)

(needs updating)

Puntius chelynoides (Dark mahseer)Status: Vulnerable B2ab(i,ii,iii,iv,v) [ver 3.1](#)

Pop. trend: decreasing

Tor malabaricus (Malabar Mahseer)Status: Endangered A2acde+3cde+4acde [ver 3.1](#)

Pop. trend: decreasing

Tor aterStatus: Vulnerable D2 [ver 3.1](#)

Pop. trend: unknown

Tor progeneius (Jungha Mahseer)Status: Near Threatened [ver 3.1](#)

Pop. trend: unknown

Tor barakaeStatus: Data Deficient [ver 3.1](#)

Pop. trend: unknown

Tor putitora (Putitor Mahseer)Status: Endangered A4acde [ver 3.1](#)

Pop. trend: decreasing

Tor khudree (Black Mahseer)Status: Endangered A2acde [ver 3.1](#)

Pop. trend: decreasing

Tor tor (mahseer)Status: Near Threatened [ver 3.1](#)

Pop. trend: decreasing



Mahseer



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Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Keywords

Text search:

Modifier:


Criteria:


Your Search Criteria


Selected Keywords


No keywords selected.


Click the "Run Search" button below to run your search using the criteria displayed above.

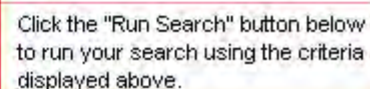
[Run search](#) 







 **Amazing Species**



Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Taxa to show:

- ☒ Species
☐ Subspecies and varieties
☐ Stocks and subpopulations

Location

- ☒ Land Regions
☒ FAO Marine Areas

- ☒ Native ☐ Introduced ☐ Vagrant ☐ Uncertain



Keywords

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Taxa to show:

- ☒ Species
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Location

- ☒ Land Regions
☐ Antarctic
☐ Caribbean Islands
☒ East Asia
☐ Europe
☐ Mesoamerica
☐ North Africa
☐ North America
☐ North Asia
☐ Oceania
☐ South America
☐ South & Southeast Asia
☐ Sub-Saharan Africa
☐ West & Central Asia
☐ FAO Marine Areas

- ☒ Native ☐ Introduced ☐ Vagrant ☐ Uncertain

Your Search Criteria

Location Modifiers

Native

Selected Locations

East Asia

Selected Taxonomy

ACTINOPTERYGII

Click the "Run Search" button below to run your search using the criteria displayed above.

Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Systems

☐ Terrestrial

☐ Freshwater

☐ Marine

Taxa to show:

☒ Species

☐ Subspecies and varieties

☐ Stocks and subpopulations

Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Systems

☐ Terrestrial

☒ Freshwater

☐ Marine

Taxa to show:

☒ Species

☐ Subspecies and varieties

☐ Stocks and subpopulations

Your Search Criteria

Selected Systems

Freshwater

Selected Taxonomy

ACTINOPTERYGII

Location Modifiers

Native

Selected Locations

East Asia

→

Click the "Run Search" button below to run your search using the criteria displayed above.

Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Taxa to show:

☒ Species
 ☐ Subspecies and varieties
 ☐ Stocks and subpopulations

Habitats

☐ 1 Forest
☐ 2 Savanna
☐ 3 Shrubland
☐ 4 Grassland
☐ 5 Wetlands (inland)
☐ 6 Rocky areas (eg. inland cliffs, mountain peaks)
☐ 7 Caves and Subterranean Habitats (non-aquatic)
☐ 8 Desert
☐ 9 Marine Neritic
☐ 10 Marine Oceanic
☐ 11 Marine Deep Benthic
☐ 12 Marine Intertidal
☐ 13 Marine Coastal/Supratidal
☐ 14 Artificial/Terrestrial
☐ 15 Artificial/Aquatic & Marine
☐ 16 Introduced vegetation

3 Shrubland

4 Grassland

5 Wetlands (inland)

☐ 5.1 Permanent Rivers/Streams/Creeks (include:
☐ 5.2 Seasonal/Intermittent/Irregular Rivers/Stre.
☐ 5.3 Shrub Dominated Wetlands
☐ 5.4 Bogs, Marshes, Swamps, Fens, Peatlands
☐ 5.5 Permanent Freshwater Lakes (over 8ha)
☐ 5.6 Seasonal/Intermittent Freshwater Lakes (ov
☐ 5.7 Permanent Freshwater Marshes/Pools (unde
☐ 5.8 Seasonal/Intermittent Freshwater Marshes/F
☐ 5.9 Freshwater Springs and Oases
☐ 5.10 Tundra Wetlands (incl. pools and temporary
☐ 5.11 Alpine Wetlands (includes temporary water
☐ 5.12 Geothermal Wetlands
☐ 5.13 Permanent Inland Deltas

Keywords

Taxonomy

Location

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Habitat

Threats

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Taxa to show:

☒ Species
 ☐ Subspecies and varieties
 ☐ Stocks and subpopulations

Habitats

3 Shrubland

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☐ 5.6 Seasonal/Intermittent Freshwater Lakes (ov
☒ 5.7 Permanent Freshwater Marshes/Pools (unde
☐ 5.8 Seasonal/Intermittent Freshwater Marshes/F
☐ 5.9 Freshwater Springs and Oases
☐ 5.10 Tundra Wetlands (incl. pools and temporary
☐ 5.11 Alpine Wetlands (includes temporary water
☐ 5.12 Geothermal Wetlands
☐ 5.13 Permanent Inland Deltas

Your Search Criteria

Selected Habitats

5.1 Wetlands (inland) -
 Permanent Rivers/Streams
 /Creeks (includes waterfalls)
 5.5 Wetlands (inland) -
 Permanent Freshwater Lakes
 (over 8ha)
 5.7 Wetlands (inland) -
 Permanent Freshwater
 Marshes/Pools (under 8ha)

Selected Taxonomy

ACTINOPTERYGII

Location Modifiers

Native

Click the "Run Search" button below
 to run your search using the criteria
 displayed above.

Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Taxa to show:

☒ Species
 ☐ Subspecies and varieties
 ☐ Stocks and subpopulations

Threats

☐ 1 Residential & commercial development
☐ 2 Agriculture & aquaculture
☐ 3 Energy production & mining
☐ 4 Transportation & service corridors
☐ 5 Biological resource use
☐ 6 Human intrusions & disturbance
☐ 7 Natural system modifications
☐ 8 Invasive & other problematic species & genes
☐ 9 Pollution
☐ 10 Geological events
☐ 11 Climate change & severe weather
☐ 12 Other options

☐ 3 Energy production & mining
☐ 4 Transportation & service corridors
☐ 5 Biological resource use
☐ 6 Human intrusions & disturbance
☐ 7 Natural system modifications
☐ 8 Invasive & other problematic species & genes
☐ 9 Pollution

☐ 9.1 Domestic & urban waste water
☐ 9.2 Industrial & military effluents
☐ 9.3 Agricultural & forestry effluents

☐ 9.3.1 Nutrient loads
☐ 9.3.2 Soil erosion, sedimentation
☐ 9.3.3 Herbicides and pesticides
☐ 9.3.4 Type Unknown/Unrecorded

☐ 9.4 Garbage & solid waste
☐ 9.5 Air-borne pollutants

Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Taxa to show:

☒ Species
 ☐ Subspecies and varieties
 ☐ Stocks and subpopulations

Threats

☐ 3 Energy production & mining
☐ 4 Transportation & service corridors
☒ 5 Biological resource use

☐ 5.1 Hunting & trapping terrestrial animals
☐ 5.2 Gathering terrestrial plants
☐ 5.3 Logging & wood harvesting
☒ 5.4.1 Intentional use: (subsistence/small scale)
☒ 5.4.2 Intentional use: (large scale)
☐ 5.4.3 Unintentional effects: (subsistence/small scale)
☐ 5.4.4 Unintentional effects: (large scale)
☐ 5.4.5 Persecution/control
☐ 5.4.6 Motivation Unknown/Unrecorded

☐ 6 Human intrusions & disturbance
☐ 7 Natural system modifications
☐ 8 Invasive & other problematic species & genes

Your Search Criteria

Selected Threats

5.4.1 Intentional use: (subsistence/small scale)
5.4.2 Intentional use: (large scale)

Selected Taxonomy

ACTINOPTERYGII

Location Modifiers

Native

Selected Locations

East Asia

Selected Systems

Freshwater

Click the "Run Search" button below to run your search using the criteria displayed above.

Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Taxa to show:

☒ Species
☐ Subspecies and varieties
☐ Stocks and subpopulations

Categories

☒ EX – Extinct
☒ EW – Extinct In The Wild
☒ CR – Critically Endangered
☒ EN – Endangered
☒ VU – Vulnerable
☒ LR/cd – Lower Risk: Conservation Dependent
☒ NT or LR/nt – Near Threatened
☒ DD – Data Deficient
☒ LC or LR/lc – Least Concern

Annotations

☐ Under petition
☐ Needs updating (older than 10 years)

Assessment Years

☒ 1996 (animals only)
☒ 1998 (plants only)
☒ 2000
☒ 2002
☒ 2003
☒ 2004
☒ 2006
☒ 2007
☒ 2008
☒ 2009
☒ 2010
☒ 2011

Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Taxa to show:

☒ Species
☐ Subspecies and varieties
☐ Stocks and subpopulations

History

☒ Plant Growth Forms

☐ Annual
☐ Cycad
☐ Epiphyte
☐ Fern
☐ Forb or Herb
☐ Fungus
☐ Geophyte
☐ Graminoid
☐ Hydrophyte
☐ Lichen
☐ Lithophyte
☐ Moss
☐ Parasite
☐ Shrub - large
☐ Shrub - size unknown

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Keywords

Taxonomy

Location

Systems

Habitat

Threats

Assessment

Life History

Taxa to show:

- ☒ Species
- ☐ Subspecies and varieties
- ☐ Stocks and subpopulations

Threats

- ☐ 1 Residential & commercial development
- ☐ 2 Agriculture & aquaculture
- ☐ 3 Energy production & mining
- ☐ 4 Transportation & service corridors
- ☒ 5 Biological resource use
 - ☐ 5.1 Hunting & trapping terrestrial animals
 - ☐ 5.2 Gathering terrestrial plants
 - ☐ 5.3 Logging & wood harvesting
 - ☒ 5.4 Fishing & harvesting aquatic resources
 - ☒ 5.4.1 Intentional use: (subsistence/small scale)
 - ☒ 5.4.2 Intentional use: (large scale)
 - ☐ 5.4.3 Unintentional effects: (subsistence/sma
 - ☐ 5.4.4 Unintentional effects: (large scale)
 - ☐ 5.4.5 Persecution/control
 - ☐ 5.4.6 Motivation Unknown/Unrecorded

Your Search Criteria

Selected Threats

5.4.1 Intentional use:
(subsistence/small scale)
5.4.2 Intentional use: (large
scale)

Selected Taxonomy

ACTINOPTERYGII

Location Modifiers

Native

Selected Locations

East Asia

Selected Systems

Freshwater

Click the "Run Search" button below
to run your search using the criteria
displayed above.

Run search



Your Search Criteria

Selected Taxonomy

ACTINOPTERYGII

Location Modifiers

Native

Selected Locations

East Asia

Selected Systems

Freshwater

Selected Habitats

5.1 Wetlands (inland) -
Permanent Rivers/Streams
/Creeks (includes waterfalls)
5.5 Wetlands (inland) -
Permanent Freshwater Lakes
(over 8ha)
5.7 Wetlands (inland) -
Permanent Freshwater
Marshes/Pools (under 8ha)

Selected Threats

5.4.1 Intentional use:
(subsistence/small scale)
5.4.2 Intentional use: (large
scale)

Click the "Run Search" button below
to run your search using the criteria
displayed above.

Run search

Acheilognathus macropterus

Status: Data Deficient [ver 3.1](#)

Pop. trend: unknown

Acheilognathus tonkinensis

Status: Data Deficient [ver 3.1](#)

Pop. trend: unknown

Acipenser baerii (Siberian Sturgeon)

Status: Endangered A2bcd+4bcd [ver 3.1](#)

Pop. trend: decreasing

Acipenser dabryanus (Yangtze Sturgeon)

Status: Critically Endangered A2bcd [ver 3.1](#)

Pop. trend: decreasing

Acipenser mikadoi (Sakhalin Sturgeon)

Status: Critically Endangered A2cde [ver 3.1](#)

Pop. trend: decreasing

Acipenser ruthenus (Sterlet)

Status: Vulnerable A2cde [ver 3.1](#)

Pop. trend: decreasing

Acipenser schrenckii (Amur Sturgeon)

Status: Critically Endangered A2bd [ver 3.1](#)

Pop. trend: decreasing

Acipenser sinensis (Chinese Sturgeon)

Status: Critically Endangered A2bcd;B2ab(i,ii,iii,iv,v);C2a(ii) [ver 3.1](#)

Pop. trend: decreasing

Anabailius alburnops (Silvery White Fish)

Status: Endangered B1ab(iii,v)+2ab(iii,v) [ver 3.1](#)

Pop. trend: decreasing

Anabailius andersoni

Status: Critically Endangered B1ab(iii,v) [ver 3.1](#)

Pop. trend: decreasing

Anabailius polylepis (Big White Fish)

Status: Endangered B1ab(ii,iii,v)+2ab(ii,iii,v) [ver 3.1](#)

Pop. trend: decreasing

Baqarius varrelli

Status: Near Threatened [ver 3.1](#)

Pop. trend: decreasing

Baqana yunnanensis

Status: Data Deficient [ver 3.1](#)

Pop. trend: unknown

Chanodichthys dabryi (Humpback)

Status: Least Concern [ver 3.1](#)

Pop. trend: decreasing

Chelidonichthys kumu (Bluefin Gurnard)

Status: Least Concern [ver 3.1](#)

Pop. trend: unknown

Cirrhinus molitorella (Mud Carp)

Status: Near Threatened [ver 3.1](#)

Pop. trend: decreasing

Cyprinus fuxianensis

Status: Critically Endangered A2bcde [ver 3.1](#)

Pop. trend: unknown

Cyprinus micristius (Dianchi Carp)

Status: Critically Endangered B1ab(i,ii,iii,iv)+2ab(i,ii,iii,iv) [ver 3.1](#)

Pop. trend: unknown

Cyprinus gionghaiensis

Status: Critically Endangered A2bcde;B1ab(iii,v)+2ab(iii,v) [ver 3.1](#)

Pop. trend: decreasing

Glyptosternon maculatum

Status: Least Concern [ver 3.1](#)

Pop. trend: unknown

Glyptothorax trilineatus (Three-lined Catfish)

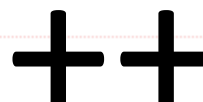
Status: Least Concern [ver 3.1](#)

Pop. trend: stable

Gnathopogon tsinanensis

Status: Data Deficient [ver 3.1](#)

Pop. trend: unknown



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Pop. trend: unknown

[Acheilognathus tonkinensis](#)Status: Data Deficient [ver 3.1](#)

Pop. trend: unknown

[Acipenser baerii](#) (Siberian Sturgeon)Status: Endangered A2bcd+4bcd [ver 3.1](#)

Pop. trend: decreasing

[Acipenser dabryanus](#) (Yangtze Sturgeon)Status: Critically Endangered A2bcd [ver 3.1](#)

Pop. trend: decreasing

[Acipenser mikadoi](#) (Sakhalin Sturgeon)Status: Critically Endangered A2cde [ver 3.1](#)

Pop. trend: decreasing

Current search:[Save / Export Search](#)

Search terms

Show taxa:

Species

Search by taxonomy:

ACTINOPTERYGII

Search by location:

East Asia

(Native)

Search by systems:

Freshwater

Match any habitat:

5.1. Wetlands (inland) - Permanent

Rivers/Streams/Creeks (includes
waterfalls)

5.5. Wetlands (inland) - Permanent

Freshwater Lakes (over 8ha)

5.7. Wetlands (inland) - Permanent

Freshwater Marshes/Pools (under 8ha)

Match any threat:

5.4.1. Intentional use: (subsistence/small
scale)

5.4.2. Intentional use: (large scale)

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Search Details

Search terms

Show taxa:

Species

Search by taxonomy:

ACTINOPTERYGII

Search by location:

East Asia

(Native)

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Freshwater

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Search Details

Search terms

Show taxa:

Species

Search by taxonomy:

ACTINOPTERYGII

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East Asia

(Native)

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5.4.2. Intentional use: (large scale)

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 - Exported on 13 September 2011

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- [Extensible Markup Language \(XML\)](#)

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	A	B	C	D	E	F	G	H	I	
1	Species ID	Kingdom	Phylum	Class	Order	Family	Genus	Species	Authority	Infraspecific
2	166130	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Acheilognathus	macropterus	(Bleeker, 1871)	
3	166179	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Acheilognathus	tonkinensis	(Vaillant, 1892)	
4	244	ANIMALIA	CHORDATA	ACTINOPTERYGII	ACIPENSERIFORMES	ACIPENSERIDAE	Acipenser	baerii	Brandt, 1869	
5	231	ANIMALIA	CHORDATA	ACTINOPTERYGII	ACIPENSERIFORMES	ACIPENSERIDAE	Acipenser	dabryanus	Duméril, 1869	
6	241	ANIMALIA	CHORDATA	ACTINOPTERYGII	ACIPENSERIFORMES	ACIPENSERIDAE	Acipenser	mikadoi	Hilgendorf, 1892	
7	227	ANIMALIA	CHORDATA	ACTINOPTERYGII	ACIPENSERIFORMES	ACIPENSERIDAE	Acipenser	ruthenus	Linnaeus, 1758	
8	228	ANIMALIA	CHORDATA	ACTINOPTERYGII	ACIPENSERIFORMES	ACIPENSERIDAE	Acipenser	schrenckii	Brandt, 1869	
9	236	ANIMALIA	CHORDATA	ACTINOPTERYGII	ACIPENSERIFORMES	ACIPENSERIDAE	Acipenser	sinensis	Gray, 1835	
10	135163	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Anabarilius	alburnops	(Regan, 1914)	
11	166177	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Anabarilius	andersoni	(Regan, 1904)	
12	1190	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Anabarilius	polylepis	(Regan, 1904)	
13	166503	ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE	Bagarius	yarrelli	(Sykes, 1839)	
14	166045	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Bangana	yunnanensis	(Wu, Lin, Chen, Chen & He, 1977)	
15	166109	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Chanodichthys	dabryi	Bleeker, 1871	
16	154895	ANIMALIA	CHORDATA	ACTINOPTERYGII	SCORPAENIFORMES	TRIGLIDAE	Chelidonichthys	kumu	(Cuvier, 1829)	
17	166016	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Cirrhinus	molitorella	(Valenciennes, 1844)	
18	166157	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Cyprinus	fluxianensis	Yang et al., 1977	
19	6178	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Cyprinus	micristius	Regan, 1906	
20	169621	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Cyprinus	qionghaiensis	Liu, 1981	
21	168574	ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE	Glyptosternon	maculatum	(Regan, 1905)	
22	166520	ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE	Glyptothorax	trilineatus	Blyth, 1860	
23	169643	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Gnathopogon	tsinanensis	(Mori, 1928)	
24	168511	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Gymnocypris	dobula	Günther, 1868	
25	168530	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Gymnocypris	scleracanthus	Tsao, Wu, Chen & Zhu, 1992	
26	166102	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Hemibarbus	umbrifer	(Lin, 1931)	
27	10268	ANIMALIA	CHORDATA	ACTINOPTERYGII	ACIPENSERIFORMES	ACIPENSERIDAE	Huso	dauricus	(Georgi, 1775)	
28	169591	ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE	Leiocassis	longirostris	Günther, 1864	
29	169638	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE	Leptobotia	tchangii	Fang, 1936	
30	181325	ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE	Macrochirichthys	macrochirus	(Valenciennes, 1844)	
31	169653	ANIMALIA	CHORDATA	ACTINOPTERYGII	SALMONIFORMES	SALANGIDAE	Neosalanx	argentea	(Lin, 1932)	
32	181009	ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	ELEOTRIDAE	Oxyeleotris	marmorata	(Bleeker, 1852)	

The results contain the following; taxonomy, authority, synonyms, common names (Eng, Fre, Spa), Red List category, Red List criteria, Red List criteria version, Year assessed, Population trend, Petitioned (yes or no)

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- Data Organization
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Spatial Data Download

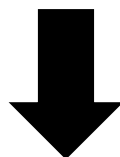
The 2010 IUCN Red List of Threatened Species contains assessments for almost 60,000 species, of which about 28,000 have spatial data. This spatial data collection provided below is the comprehensively assessed taxonomic groups such as amphibians, mammals, threatened reef-building corals, groupers, wrasses, angelfish, butterflyfish, seashells, seagrasses and mangroves. Spatial data is also provided for many of the reptile species that have been assessed. Other groups will be added to this collection once they are mapped. It is important to note that some species listed as Data Deficient are not mapped. These data are made freely available to the public to help inform conservation planning and other decision making processes. For more information about the assessment process, please see the IUCN Red List website (<http://www.iucnredlist.org/technical-documents/assessment-process>).

The data are held in shapefiles, the ESRI native format and contain the known range of each species. Ranges are depicted as polygons. DBF files accompanying each polygon contain taxonomic information, and contain information on distribution status, sources and other details about the maps (see [metadata document](#)). To limit the size of the shapefiles that are available to download, the higher taxonomy is not included in the data sets, only the genus and species name. The higher taxonomy including the current Red List Category information is available under each section, in excel format (these are the same data you would get if you ran a search on the Red List web site and exported the results as a CSV file), and you are able to join this file with the shapefiles when downloaded.

For ease of distribution and downloading the data is divided by taxonomic groups.

The data is available both in ESRI File Geodatabase format and the ESRI Shapefile format and is held in geographical coordinates. Please note that the files are large, and download times could be quite lengthy.

While this data is made freely available to the public, please note that unfortunately we cannot provide technical support for use of the data in analyses or general GIS support.





Data Links

[Mammals](#)

[Birds](#)

[Groupers](#)

[Amphibians](#)

[Angelfish](#)

[Wrasses](#)

[Corals](#)

[Butterflyfish](#)

[Mangroves](#)

[Reptiles](#)

[Parrotfish](#)

[Seagrasses](#)

Mammals

The ranges are available as a single data set (file Geodatabase) for all mammals or broken out into smaller data sets as shapefiles. The ranges are broken out by grouping families containing predominantly marine and terrestrial species.

The terrestrial file includes all mammals, excluding species in the families Otariidae, Phocidae and Odobenidae (i.e. all seals, sea lions and walrus), Balaenidae, Balaenopteridae, Delphinidae, Eschrichtidae, Iniidae, Monodontidae, Neobalaenidae, Phocoenidae, Physteridae, Platanistidae, and Ziphiidae (all whales, dolphins and porpoises), and everything in the Order Sirenia (manatees and dugongs). The latter families are included in the Marine shapefile.

[All mammals - 2010](#) (zip file, 365.7 MB)

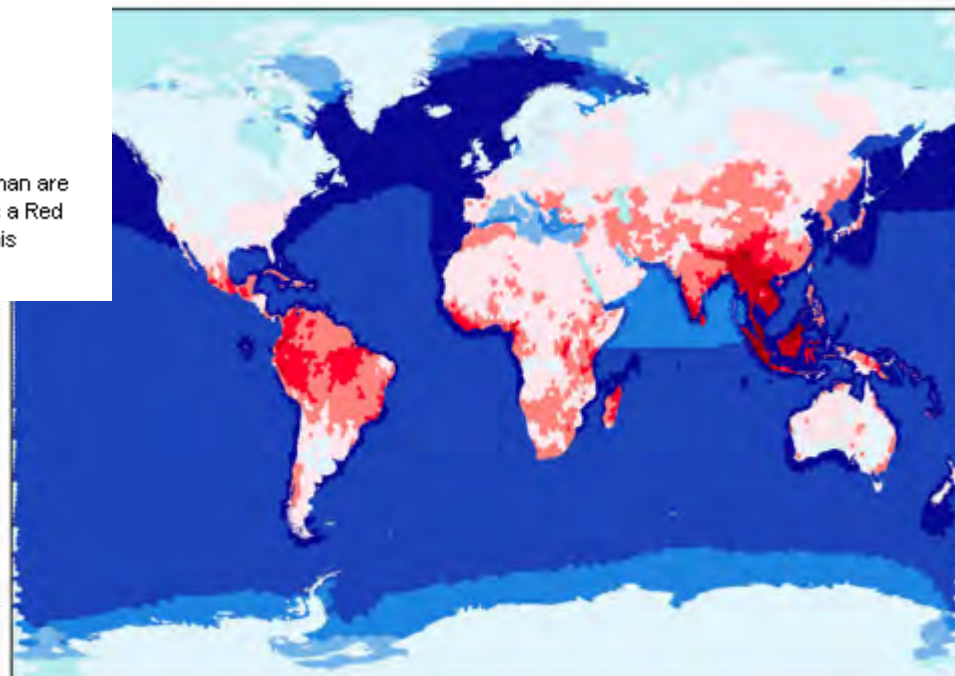
[Mammals - terrestrial](#) (zip file, 374 MB)

[Mammals - marine](#) (zip file, 356.4 MB)

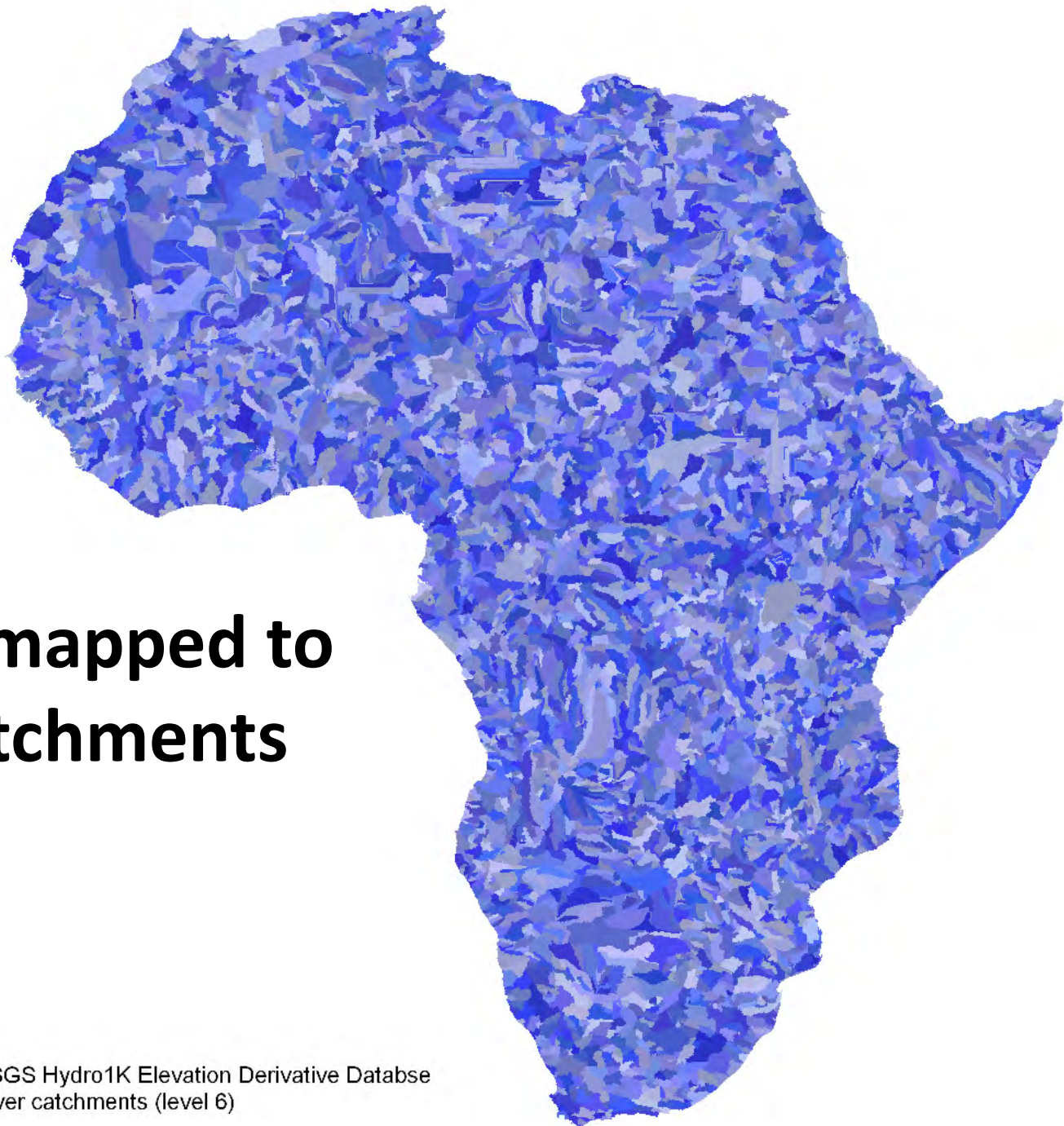
See [metadata document](#) for further information.

[Mammals - full taxonomy and Red List status](#) (note that there are more species in this list than are mapped and the list does not include subspecies or subpopulations). The list presented as a Red List search result with links to each species fact sheet can also be found by clicking on this permalink: <http://www.iucnredlist.org/apps/redlist/search/link/4cc84a88-1fd94435>.

d mammal richness (number of species)



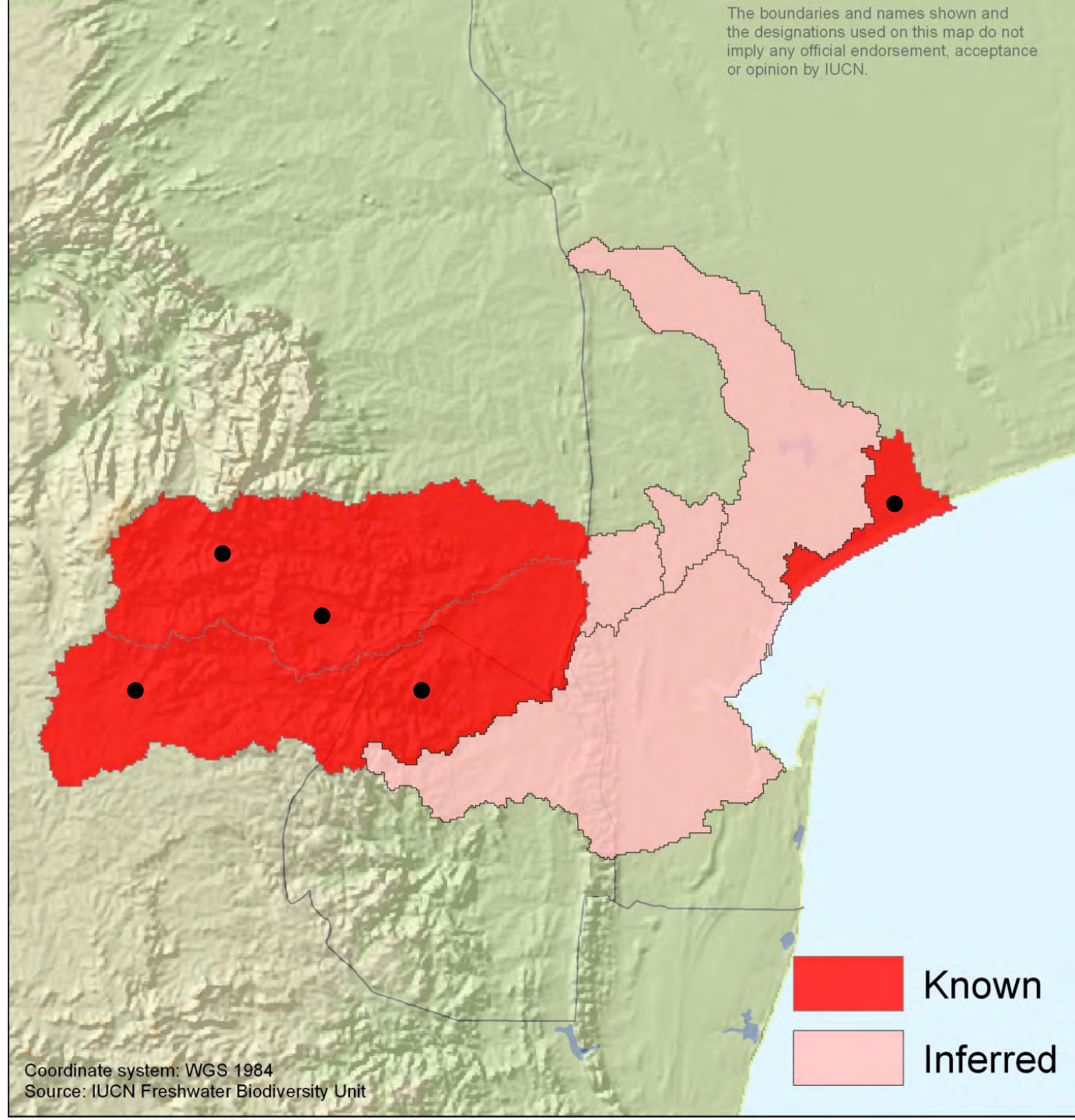
Species Distribution Maps



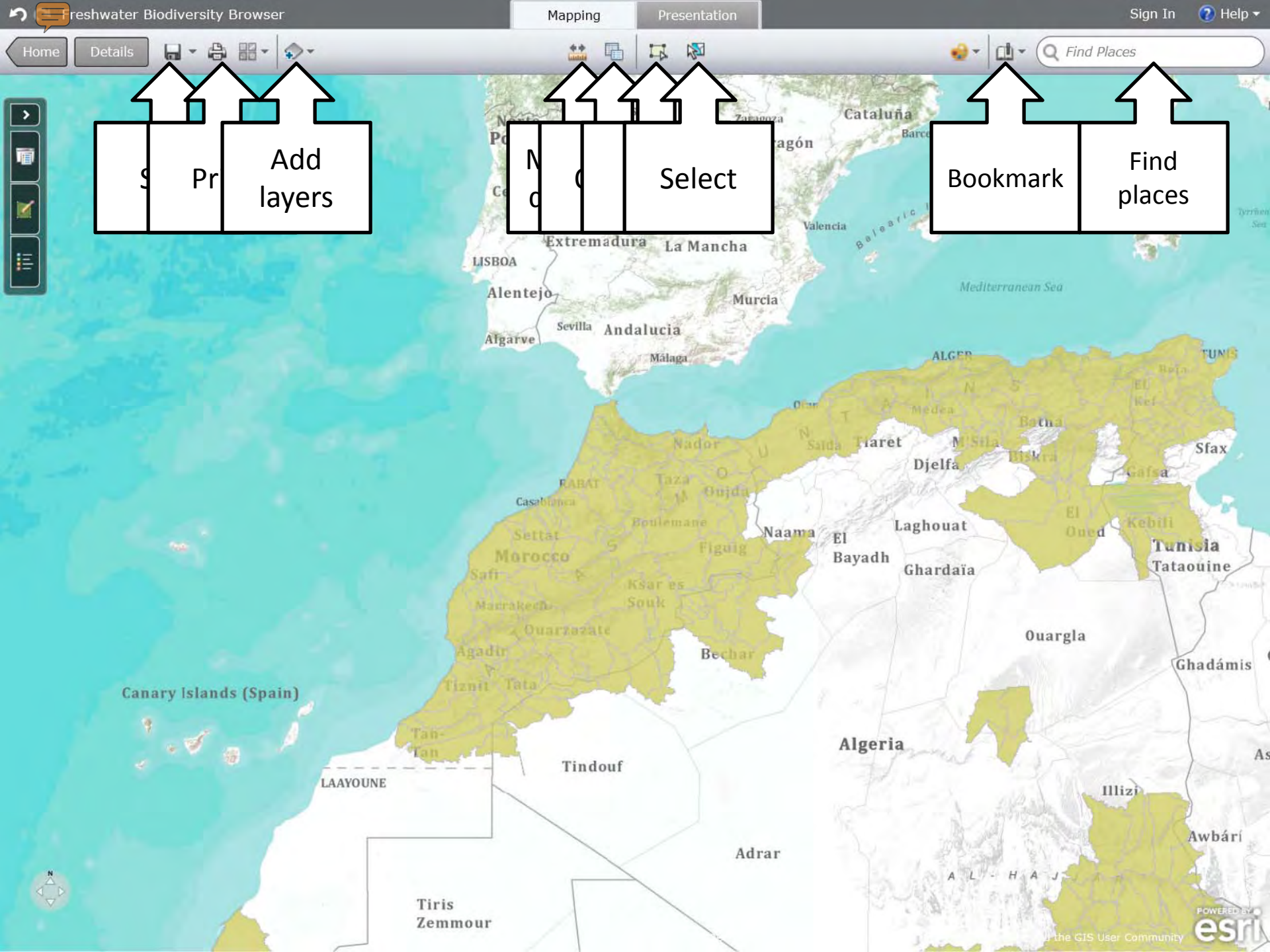
**Species are mapped to
7079 sub-catchments**

USGS Hydro1K Elevation Derivative Database
River catchments (level 6)

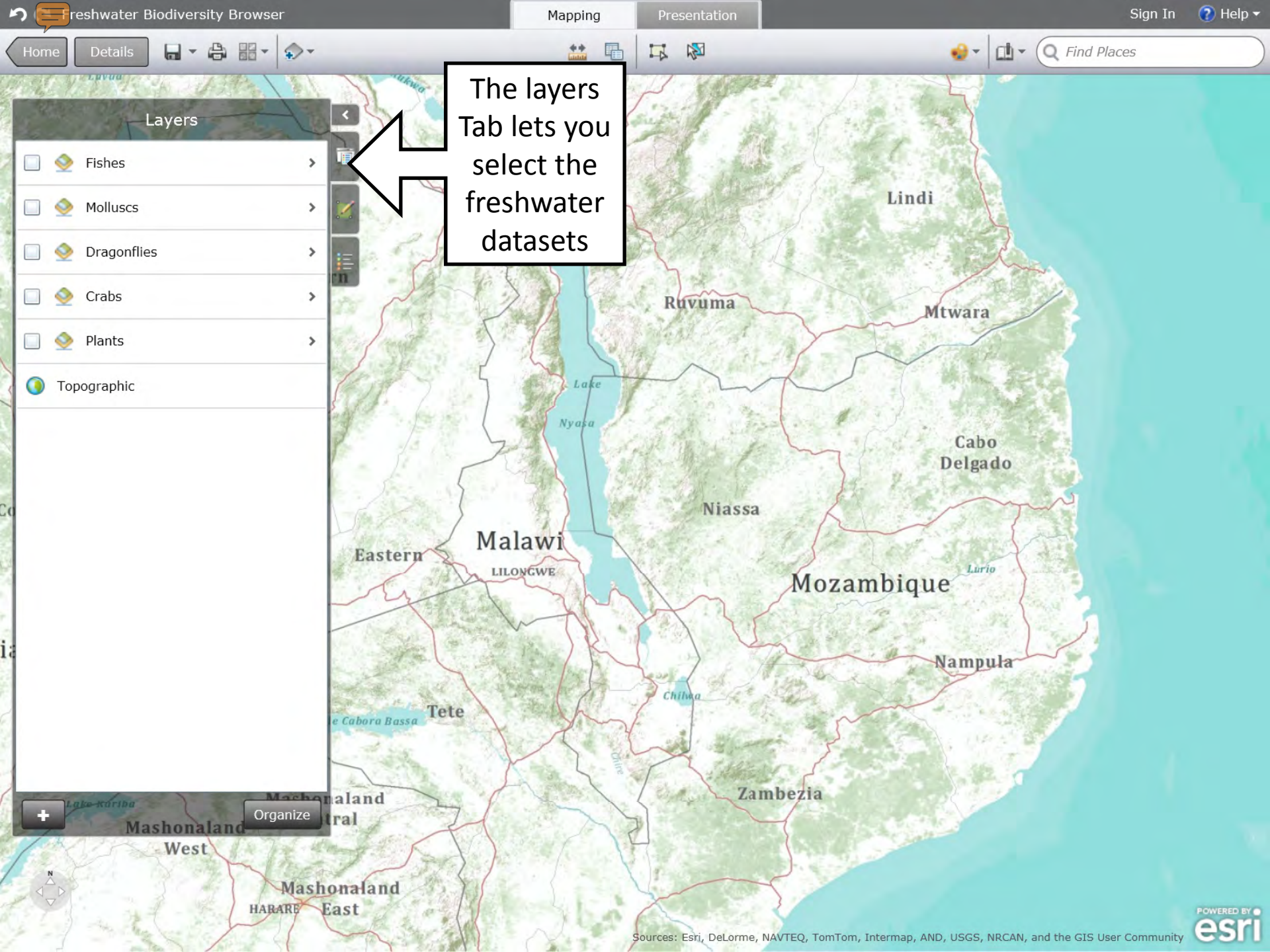
**A combination
of Expert
knowledge,
point data and
published data
were used to
map known and
inferred ranges**



The BioBrowser



Shaded Relief



The layers
Tab lets you
select the
freshwater
datasets

Layers

- ☒ Fishes
- ☐ Molluscs
- ☐ Dragonflies
- ☐ Crabs
- ☐ Plants
- Topographic

+

Organize

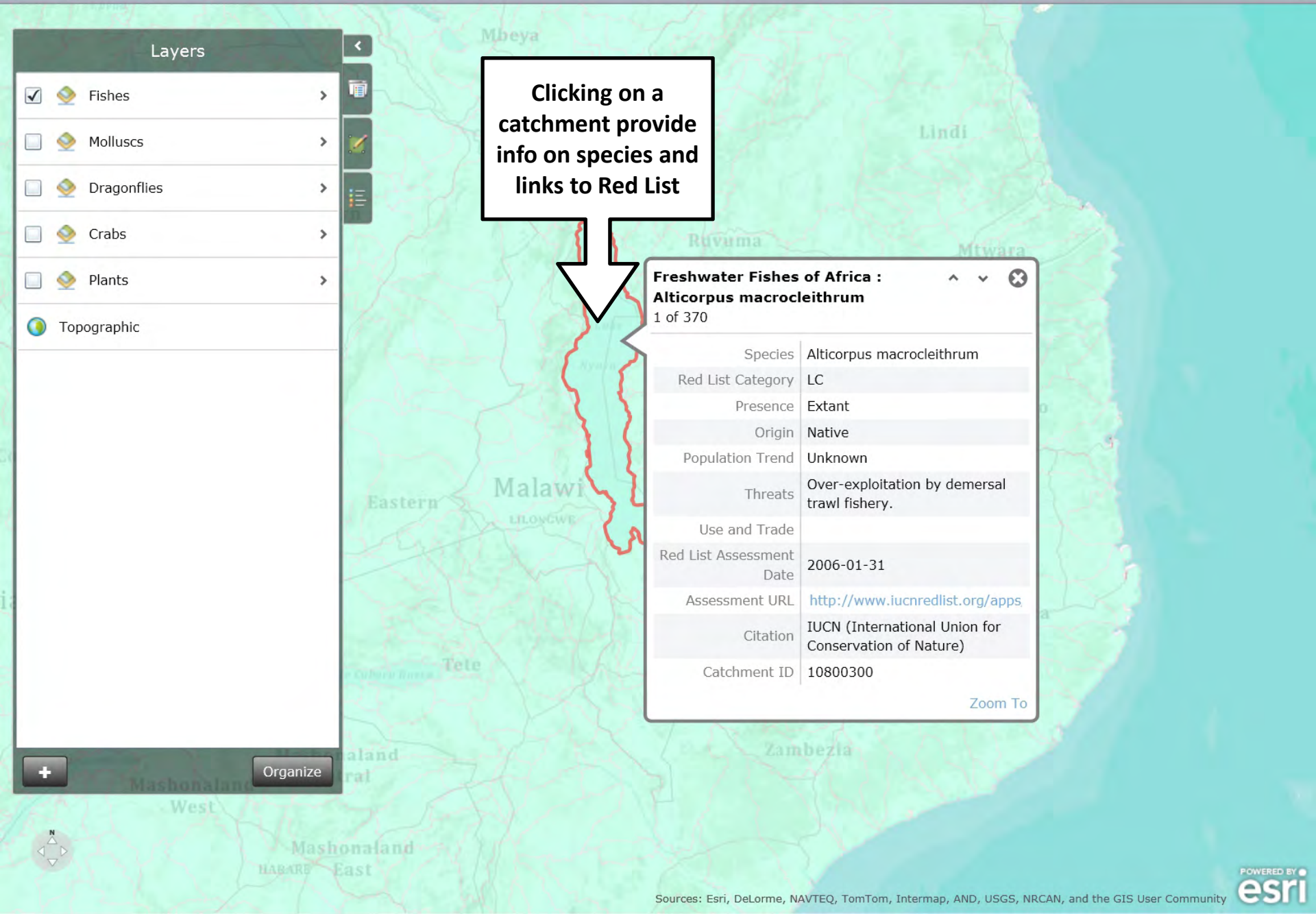
Clicking on a catchment provide info on species and links to Red List

Freshwater Fishes of Africa :
Alticorpus macrocleithrum

1 of 370

Species	Alticorpus macrocleithrum
Red List Category	LC
Presence	Extant
Origin	Native
Population Trend	Unknown
Threats	Over-exploitation by demersal trawl fishery.
Use and Trade	
Red List Assessment Date	2006-01-31
Assessment URL	http://www.iucnredlist.org/apps
Citation	IUCN (International Union for Conservation of Nature)
Catchment ID	10800300

Zoom To



Queries

- Search for a fish range
- Search for a mollusc range
- Search for an odonate range
- Search for a crab range
- Search for a plant range
- Threatened fishes per catchment
- Threatened molluscs per catchment
- Threatened odonates per catchment
- Threatened crabs per catchment
- Threatened plants per catchment

Searching for a species by name...

...produces a range map...

...and information and links to the Red List

Query Results

Margaritifera marocana	
2 of 5	
BINOMIAL	Margaritifera marocana
RL	CR
PRESENCE	Extinct
ORIGIN	Native
POP_TREND	Decreasing
THREATS	This species was possibly collected (till the 19th Century) for pearls since the old name of the Oued Derna is River of Pearls. The major threats for the few surviving populations are pollution or any kind of mechanical alteration/disturbance (impoundment)
USE_TRADE	Wearing apparel, accessories
REDLISTASS	2007-05-04 00:00:00
URL	http://www.iucnredlist.org/
CITATION	IUCN (International Union for Conservation of Nature)
HYD_7_AZ	1524000
Shape_Length	897358.414877947
Shape_Area	11406837484.739

Queries

Search for a fish range

Search for a mollusc range

Search for an odonate range

Search for a crab range

Search for a plant range

Threatened fishes per catchment

Threatened molluscs per catchment

Threatened odonates per catchment

Threatened crabs per catchment

Threatened plants per catchment

+

Organize

There are a number of pre-defined queries such as listing all threatened species in a catchment

Query Results

Threatened fishes per catchment
115 features

Allochromis welcommei
BINOMIAL

Astatotilapia piceatus
BINOMIAL

Haplochromis aelocephalus
BINOMIAL

Haplochromis aelocephalus
BINOMIAL

Haplochromis apogonoides
BINOMIAL

Haplochromis argenteus
BINOMIAL

Haplochromis argenteus
BINOMIAL

Haplochromis barbarae
BINOMIAL

Haplochromis bareli
BINOMIAL

Haplochromis bayoni
BINOMIAL

Haplochromis brownae
BINOMIAL

Haplochromis cassius
BINOMIAL

Haplochromis cavifrons
BINOMIAL

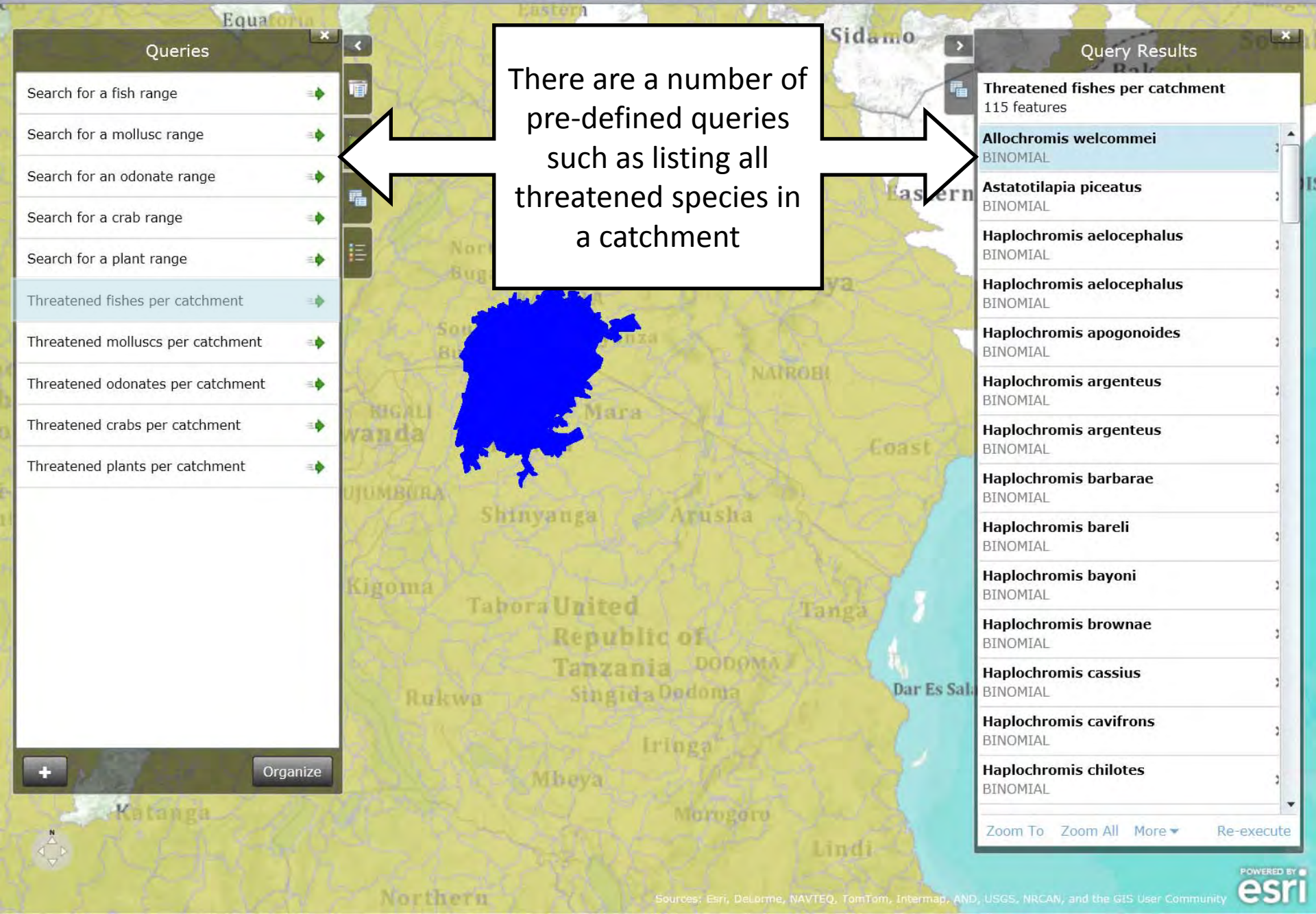
Haplochromis chilotes
BINOMIAL

Zoom To

Zoom All

More

Re-execute

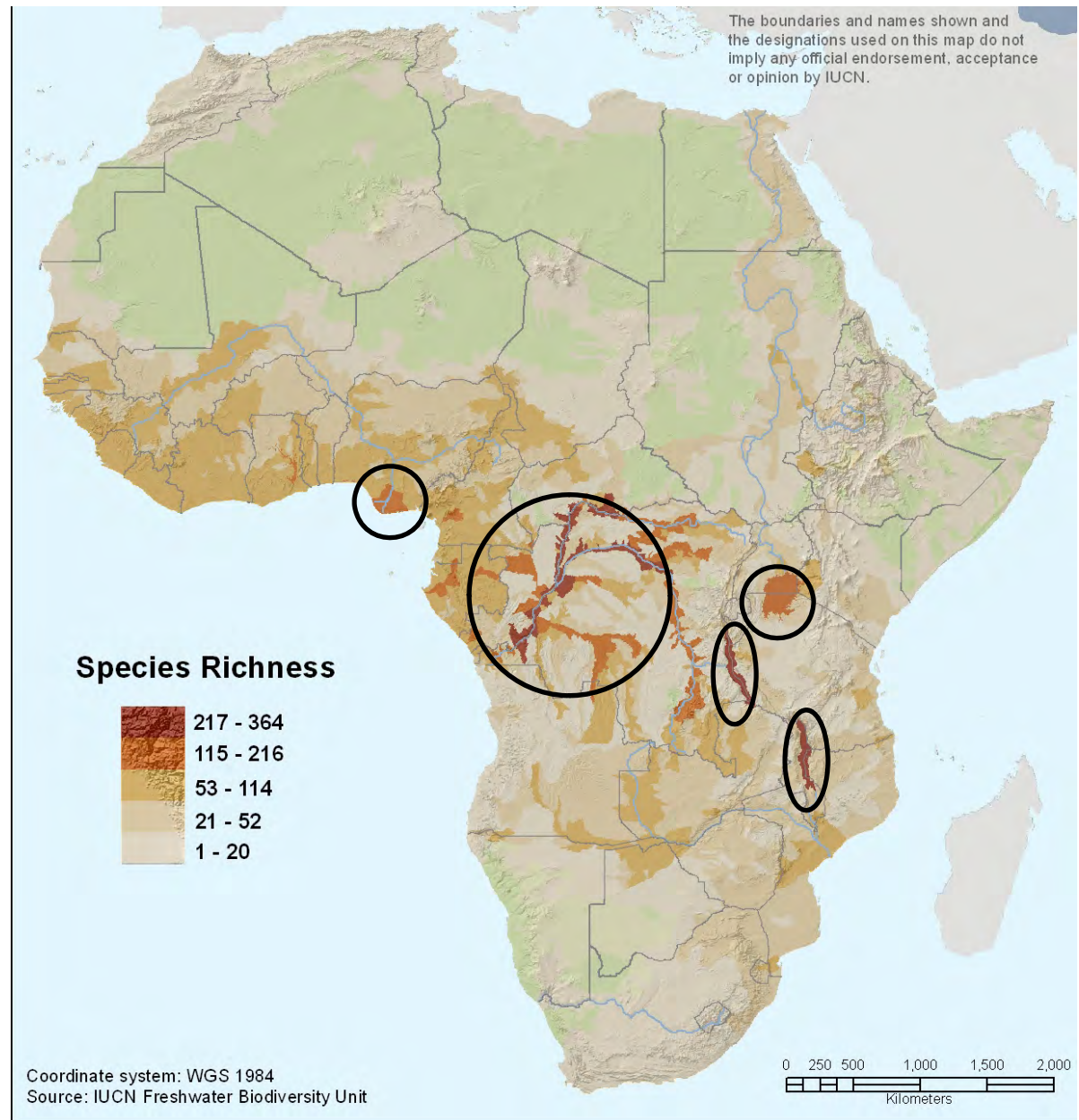


Some Basic Analysis

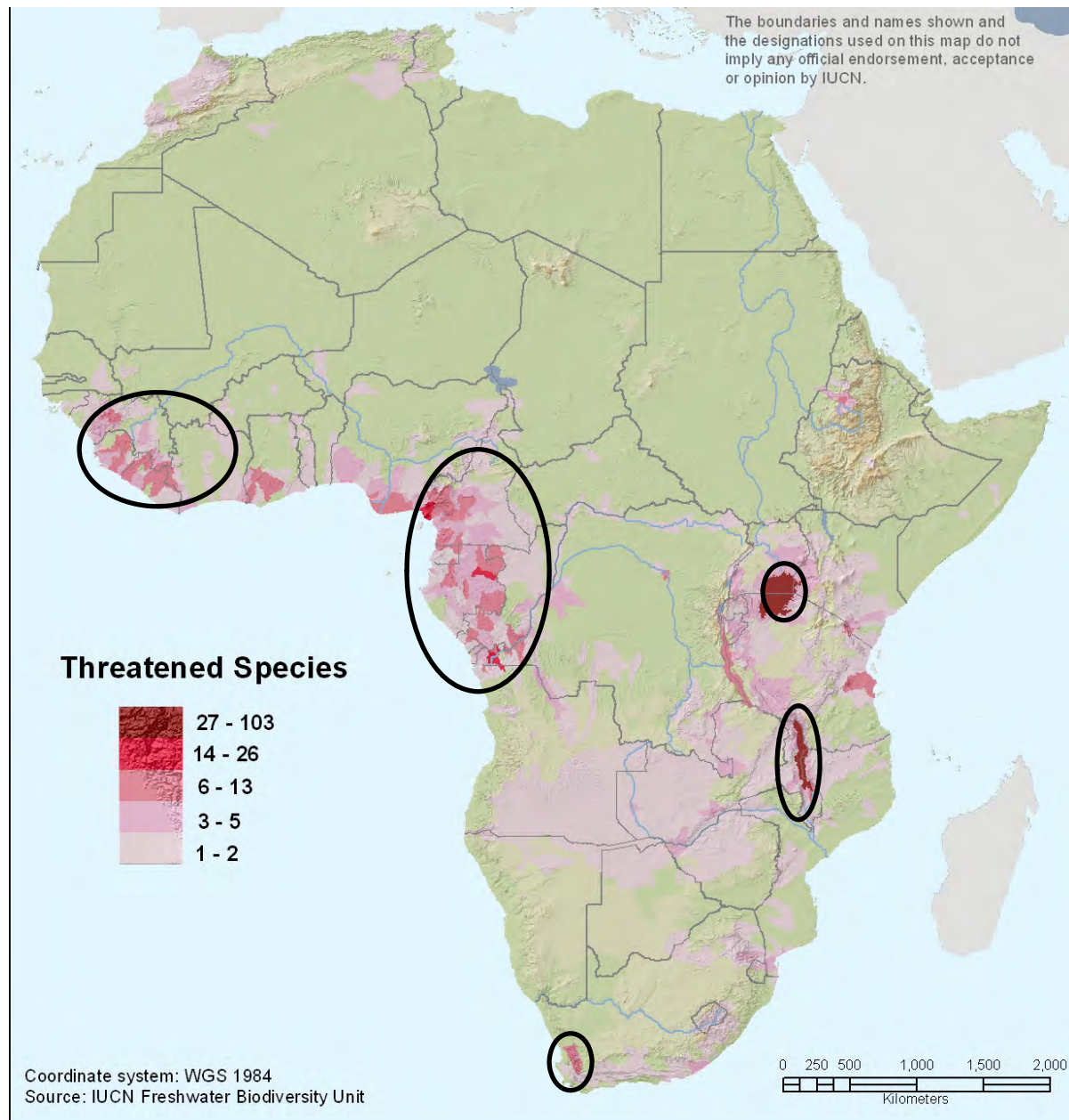
Using the shapefiles

GIS species overlays:

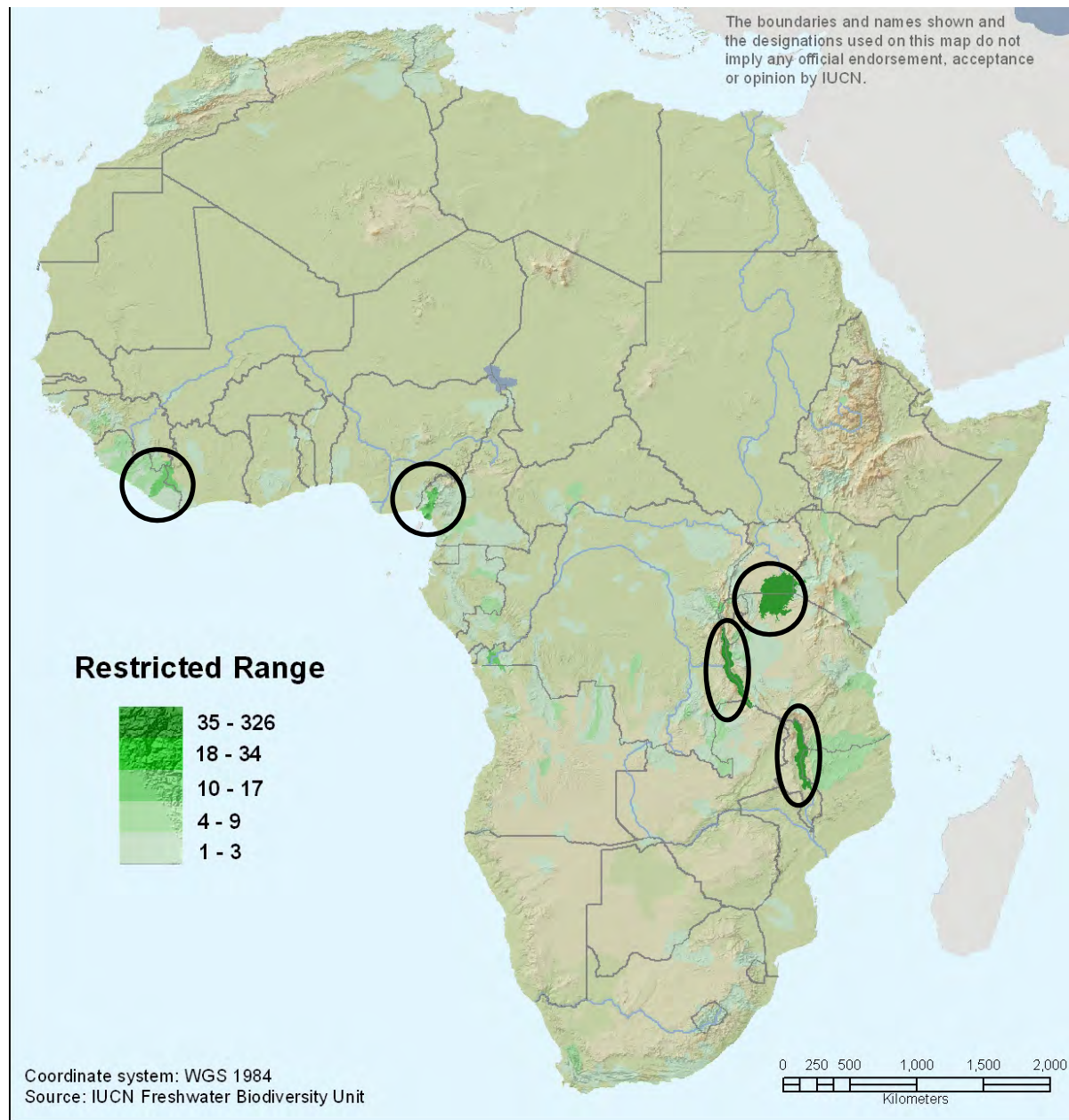
Can identify areas
of high species
richness...



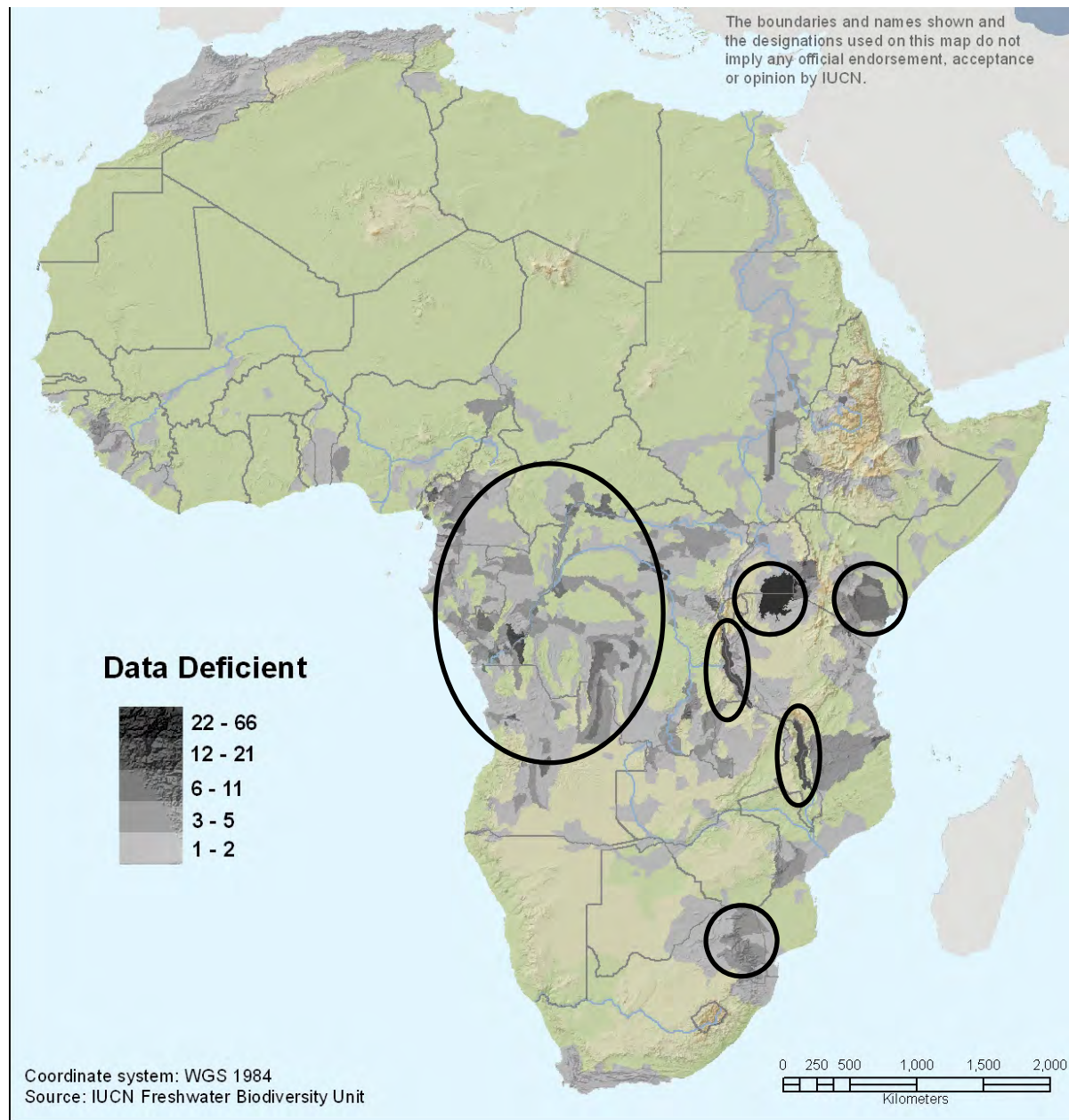
**...priorities for
conservation
based on
threatened
species...**



...priorities based
on endemism...



**...and areas to
invest to increase
our knowledge.**



Shortfalls in freshwater conservation planning

Niasse Game Reserve

United Republic of Tanzania

Mozambique

**Rivers used as
boundary markers**



2,000 1,000 0 2,000 Kilometers



Identifying Key Biodiversity Areas (KBAs) for freshwaters.

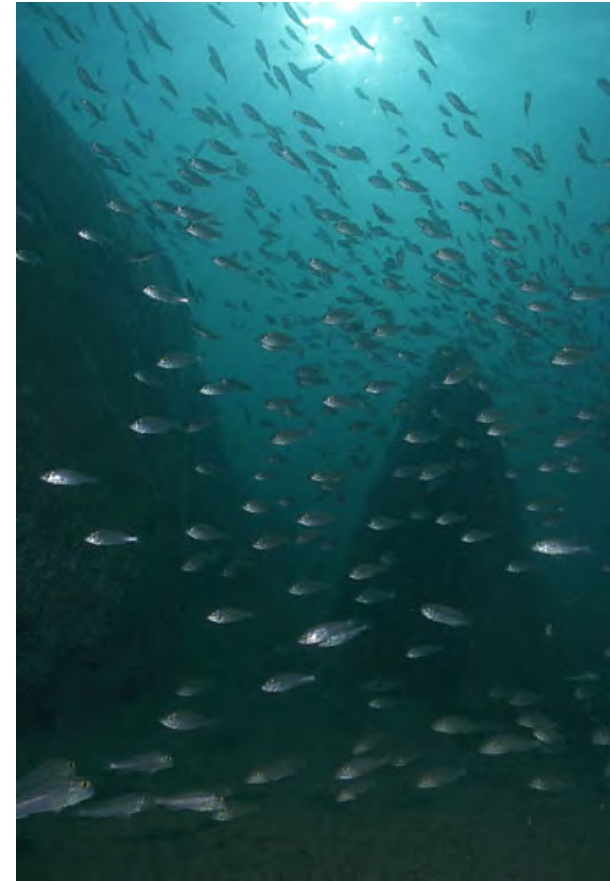
What are KBAs?

- Sites of global significance for biodiversity conservation
- Identified using globally standard criteria and thresholds
- Criteria relate to the vulnerability and irreplaceability of sites



What is their purpose?

- Gap analysis of the coverage of protected areas
- Allows strategic expansion for the coverage of species
- Provides a focus for work and funding – i.e. Critical Ecosystem Partnership Fund



Methodology for Freshwater KBAs

- **Step 1:** Define the **geographic boundaries** within which to identify important sites.
- **Step 2:** Define the wider **ecological context** of the designated assessment area.
- **Step 3:** Identify and **map** the distribution of **inland water** habitat types.
- **Step 4:** Assemble an inventory of the **distribution** and **conservation status** of priority aquatic taxa.
- **Step 5:** Apply species based site **selection criteria**.
- **Step 6:** Ensure **full representation** of inland water habitats among those sites selected.
- **Step 7:** Ensure inclusion of **keystone species**.

GOAL: To select **ALL** sub-catchment of importance using standard criteria.

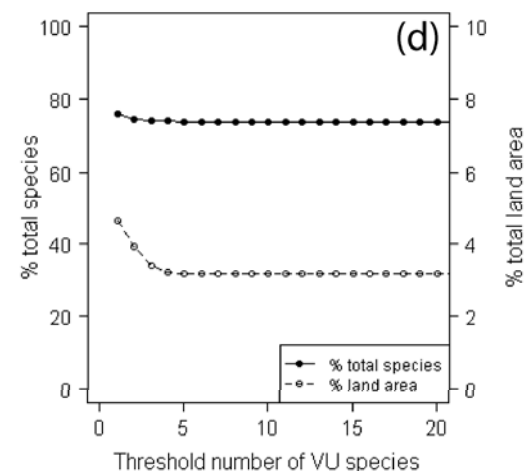
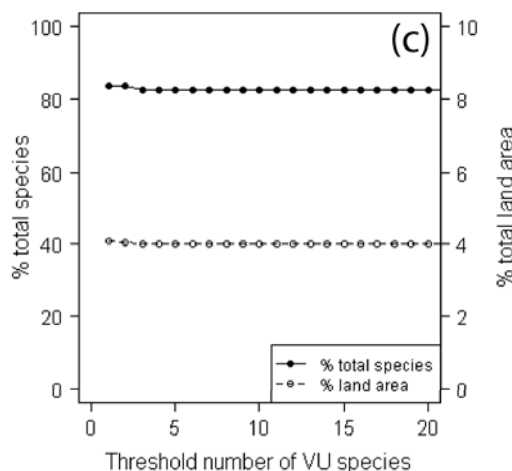
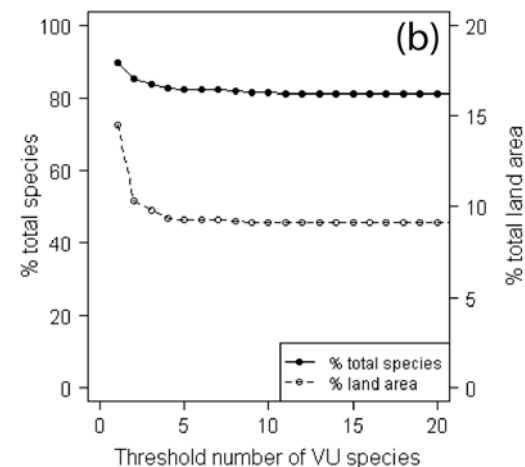
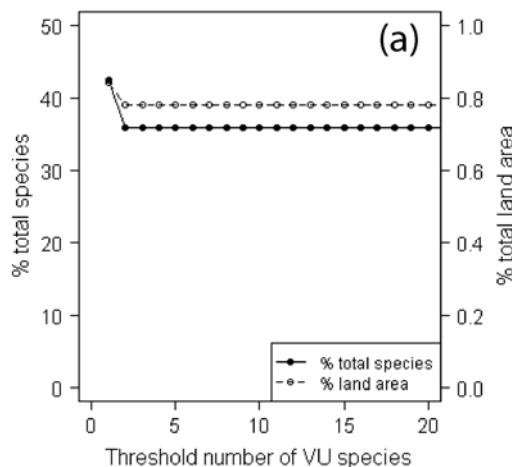
Stage 1 – ID qualifying sub-catchments

- **Criterion 1.** A site is known or thought to hold a significant number of one or more **globally threatened species** or other species of conservation concern.
- **Criterion 2.** A site is known or thought to hold non-trivial numbers of one or more species (or infraspecific taxa as appropriate) of **restricted range**.
- **Criterion 3.** A site is known or thought to hold a significant component of the group of species that are **confined** to an appropriate **biogeographic unit** or units.
- **Criterion 4a.** A site is known or thought to be **critical** for any **life history stage** of a species.
- **Criterion 4b.** A site is known or thought to hold more than a **threshold number** of individuals of a **congregatory species**.

Developing the site selection criteria

Criterion 1

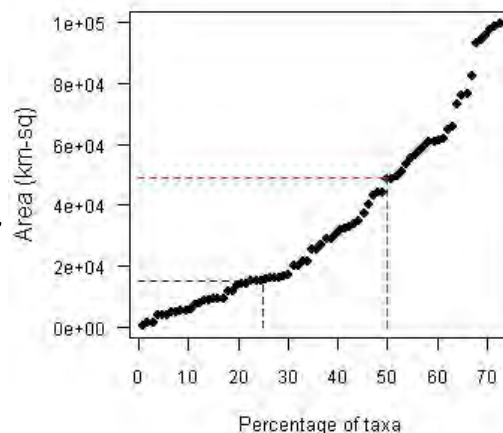
- *A site is known or thought to hold a significant number of one or more **globally threatened species** or other species of conservation concern.*



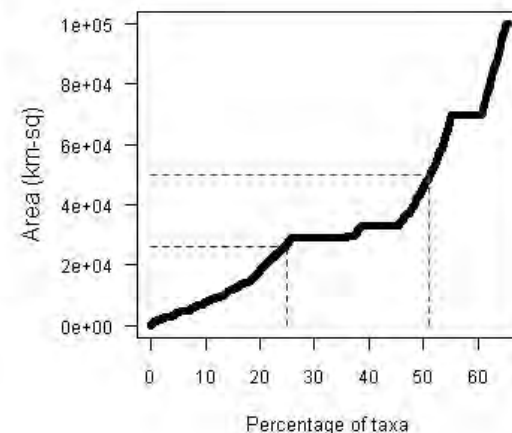
Criterion 2

- *A site is known or thought to hold non-trivial numbers of one or more species (or infraspecific taxa as appropriate) of **restricted range**.*

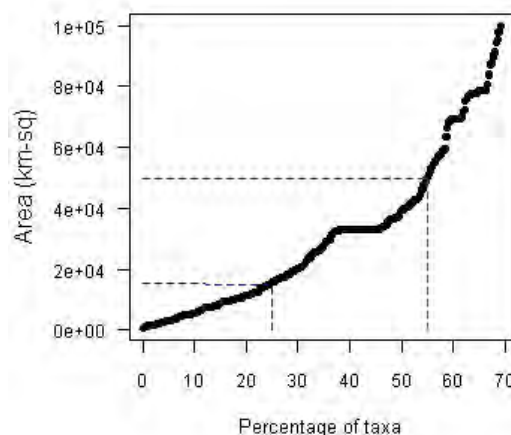
Crab



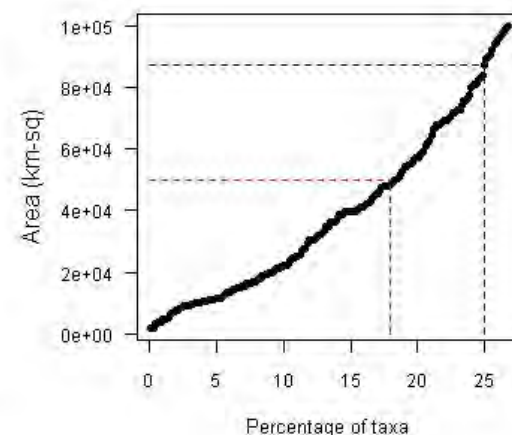
Fish



Mollusc



Odonates

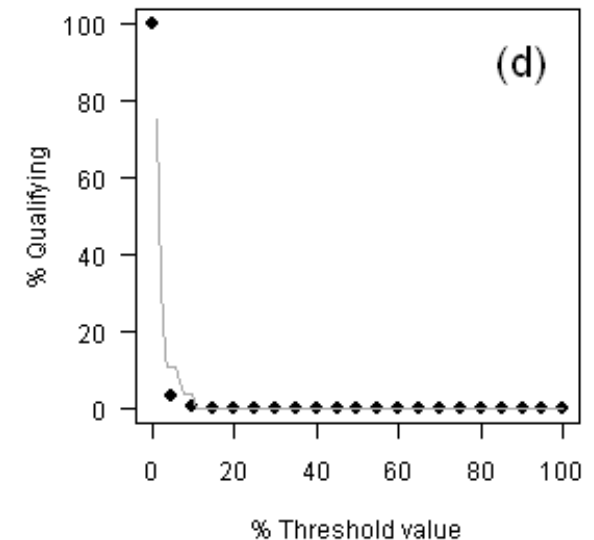
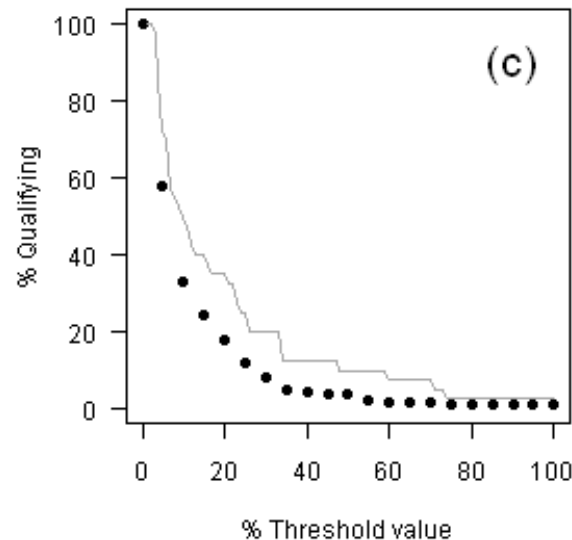
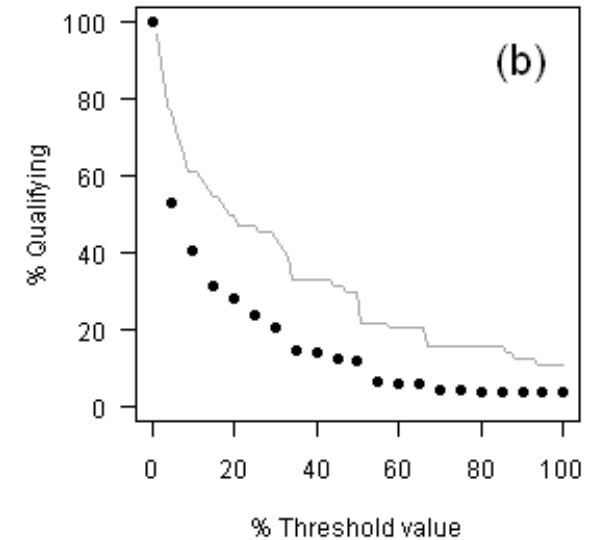
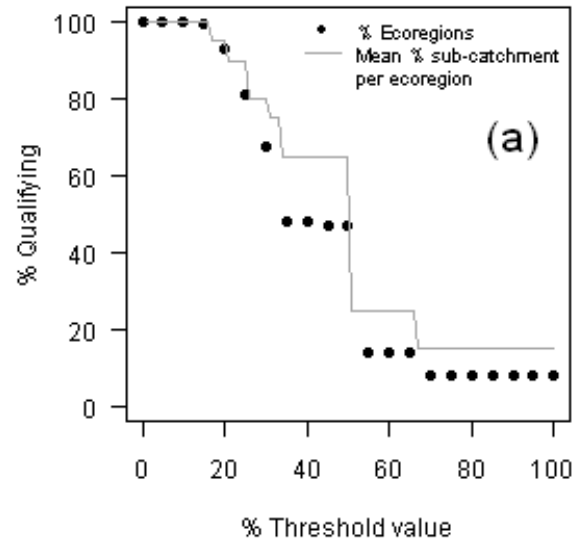


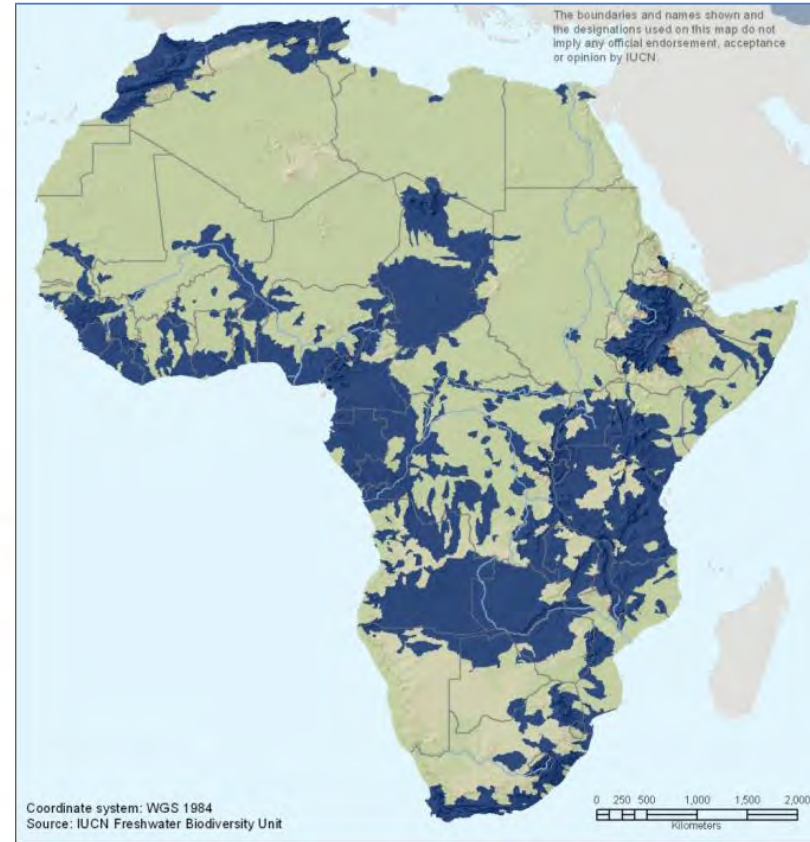
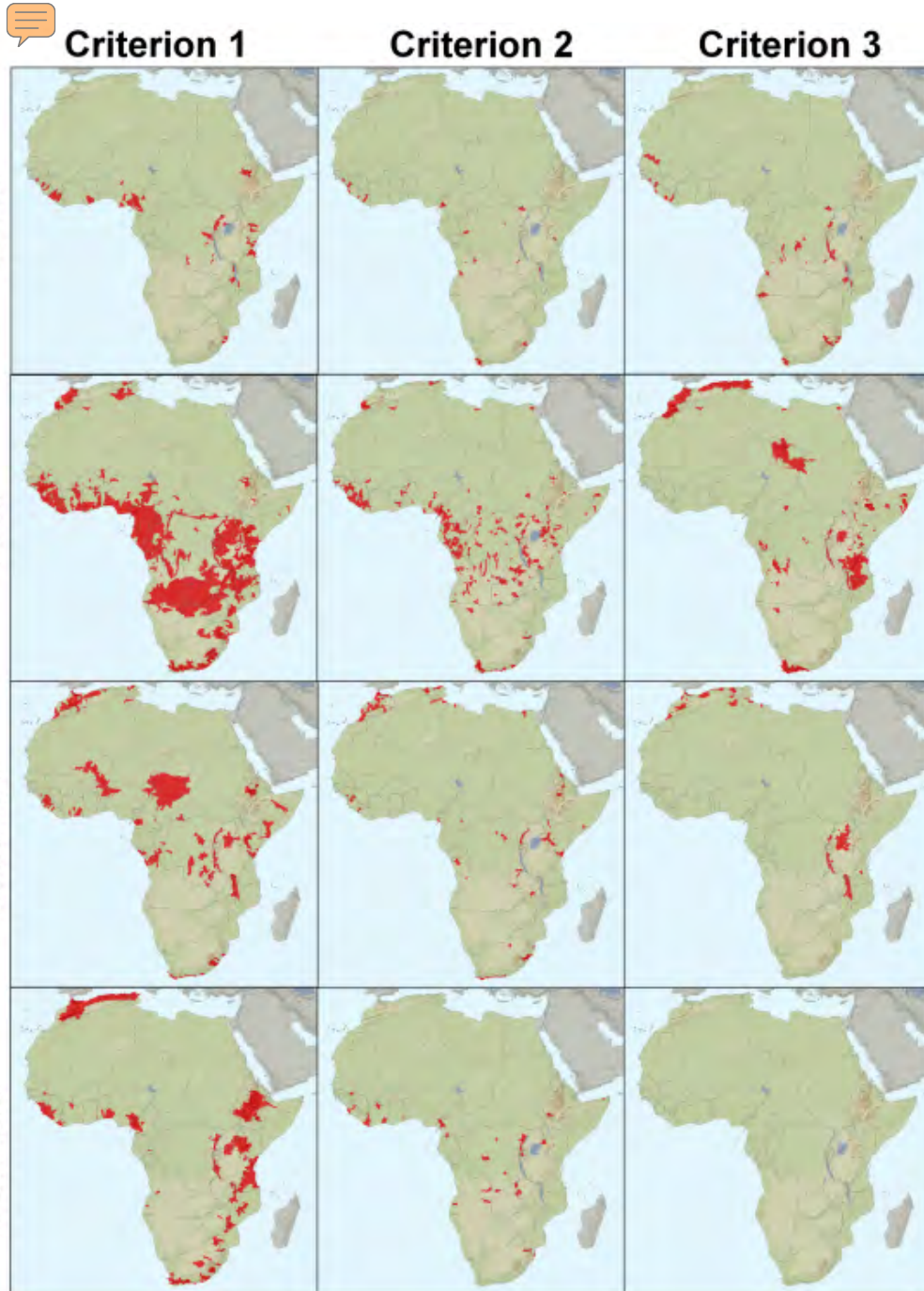
Percentage
threshold

Absolute
threshold

Criterion 3

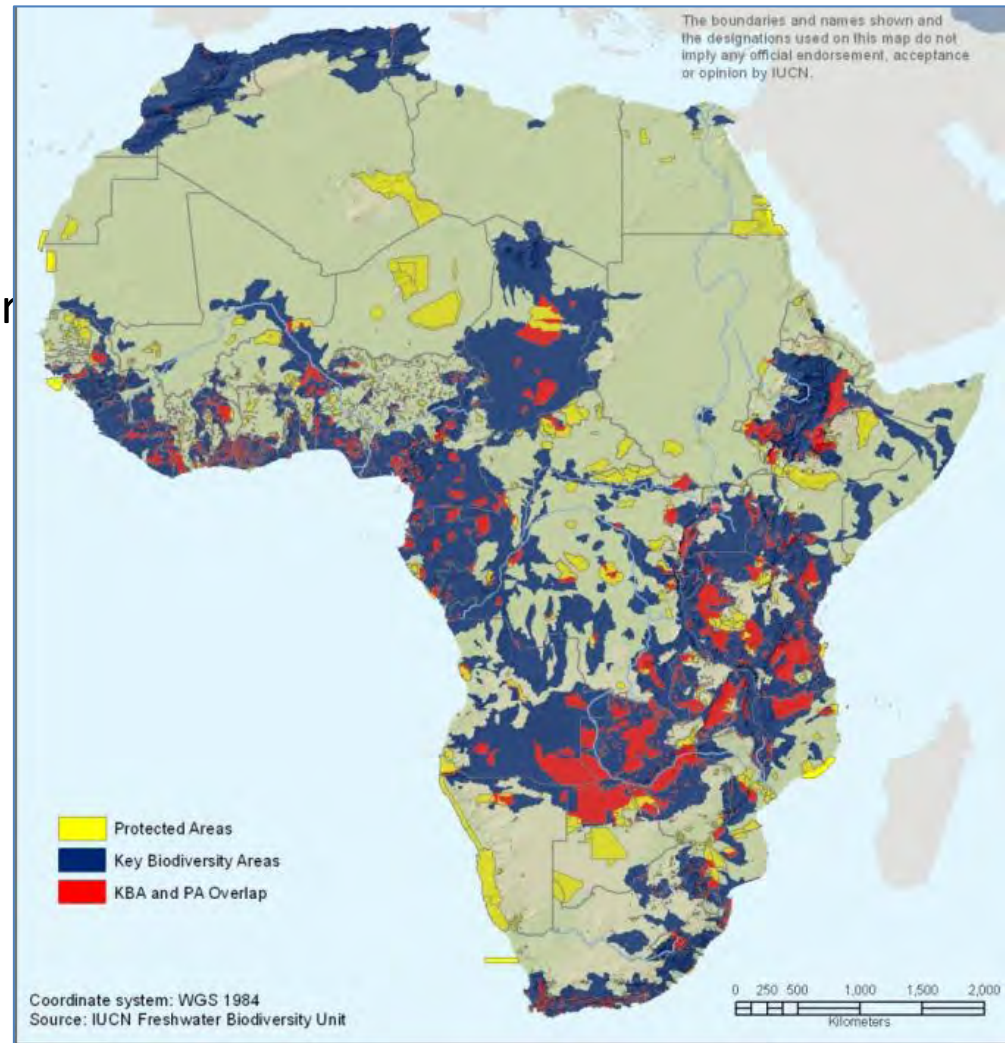
- A site is known or thought to hold a significant component of the group of species that are **confined** to an appropriate **biogeographic unit or units**.





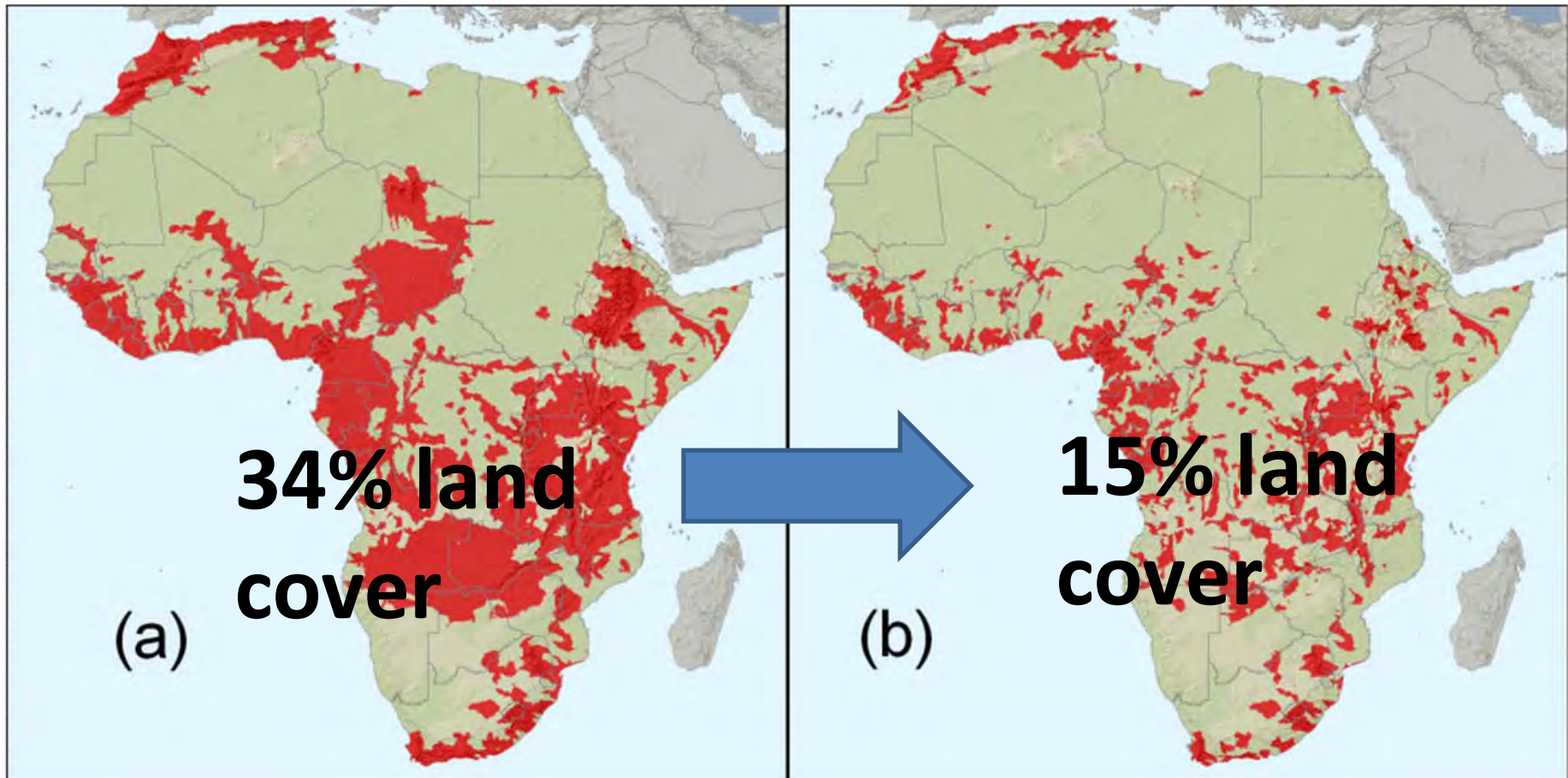
Phase 2 – overlaps with existing PAs/KBAs

- Rationalise KBA and PA boundaries
- Identify shortfalls in existing PA cover
- Coverage variable across the continent
- Within priority sub-catchments circa 16% of river length within a PA
- Management often not targeting freshwater habitats/species
- In South Africa only 50% of rivers within PAs were intact



Systematic Conservation Planning

Can use tools such as MARXAN or ZONATION to prioritise sites.



GOAL: To **PRIORITISE** sub-catchment for action.



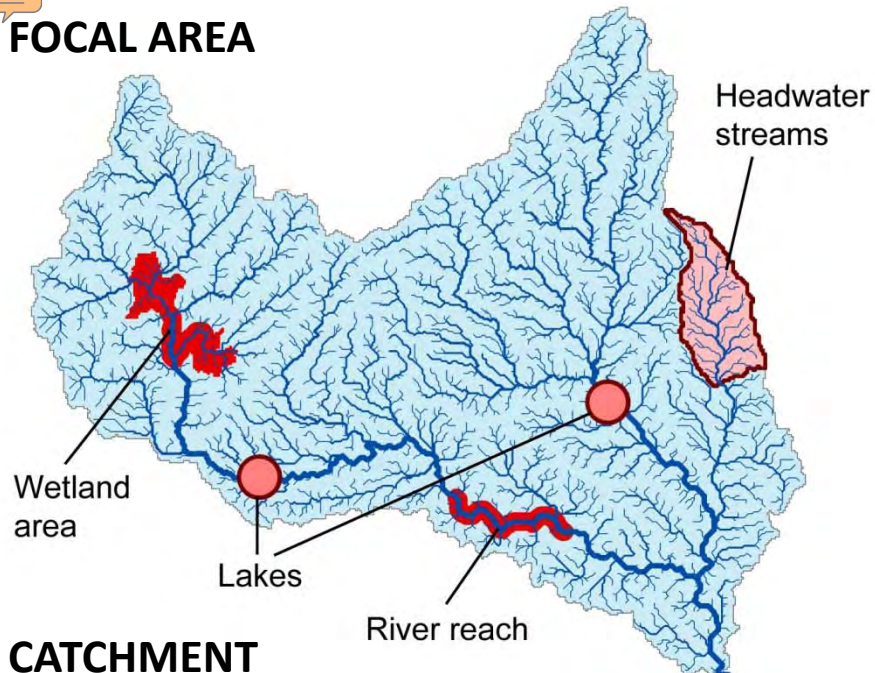
Phase 3 - stakeholder consultation

- Site boundaries
- Context within catchment activities
- Social considerations
- Site or Catchment?

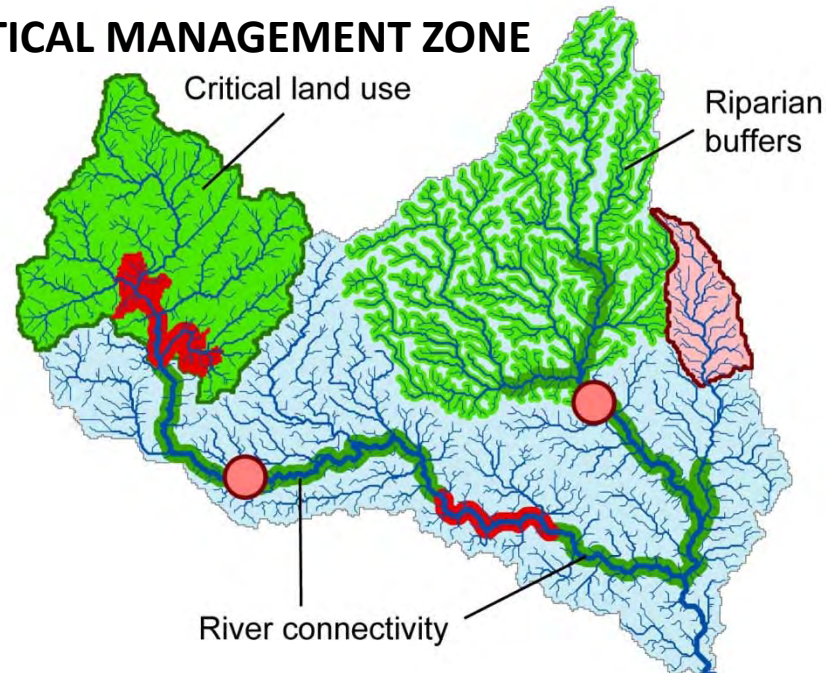




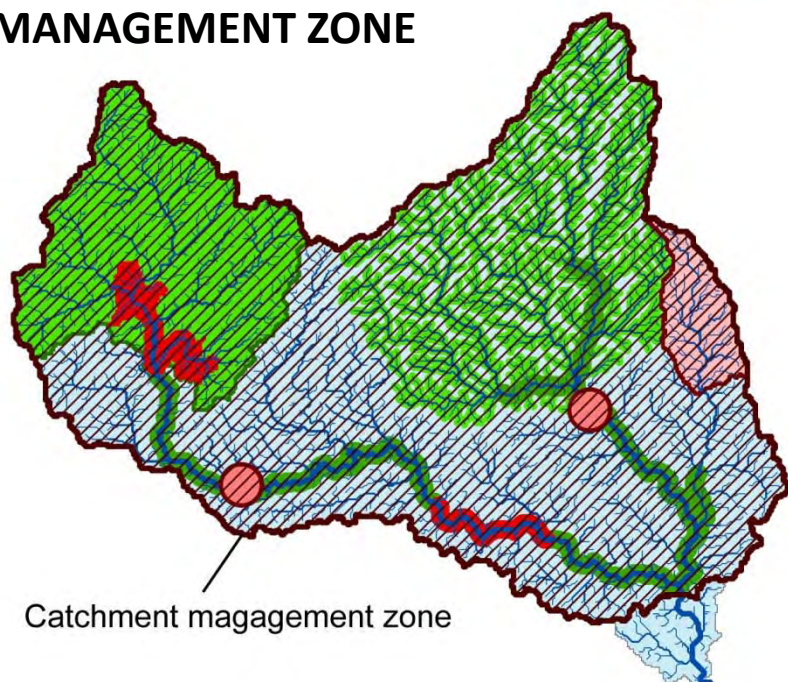
FOCAL AREA



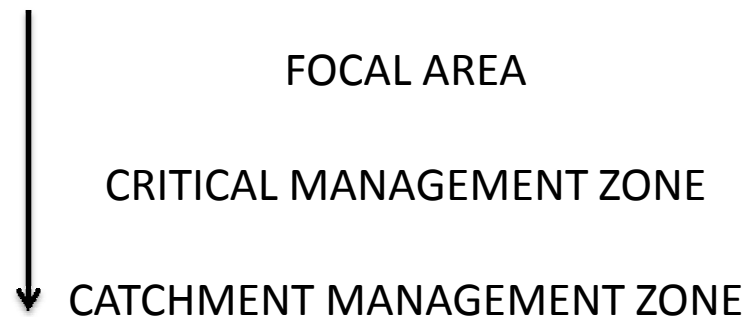
CRITICAL MANAGEMENT ZONE



CATCHMENT MANAGEMENT ZONE



DECREASING LEVELS OF PROTECTION



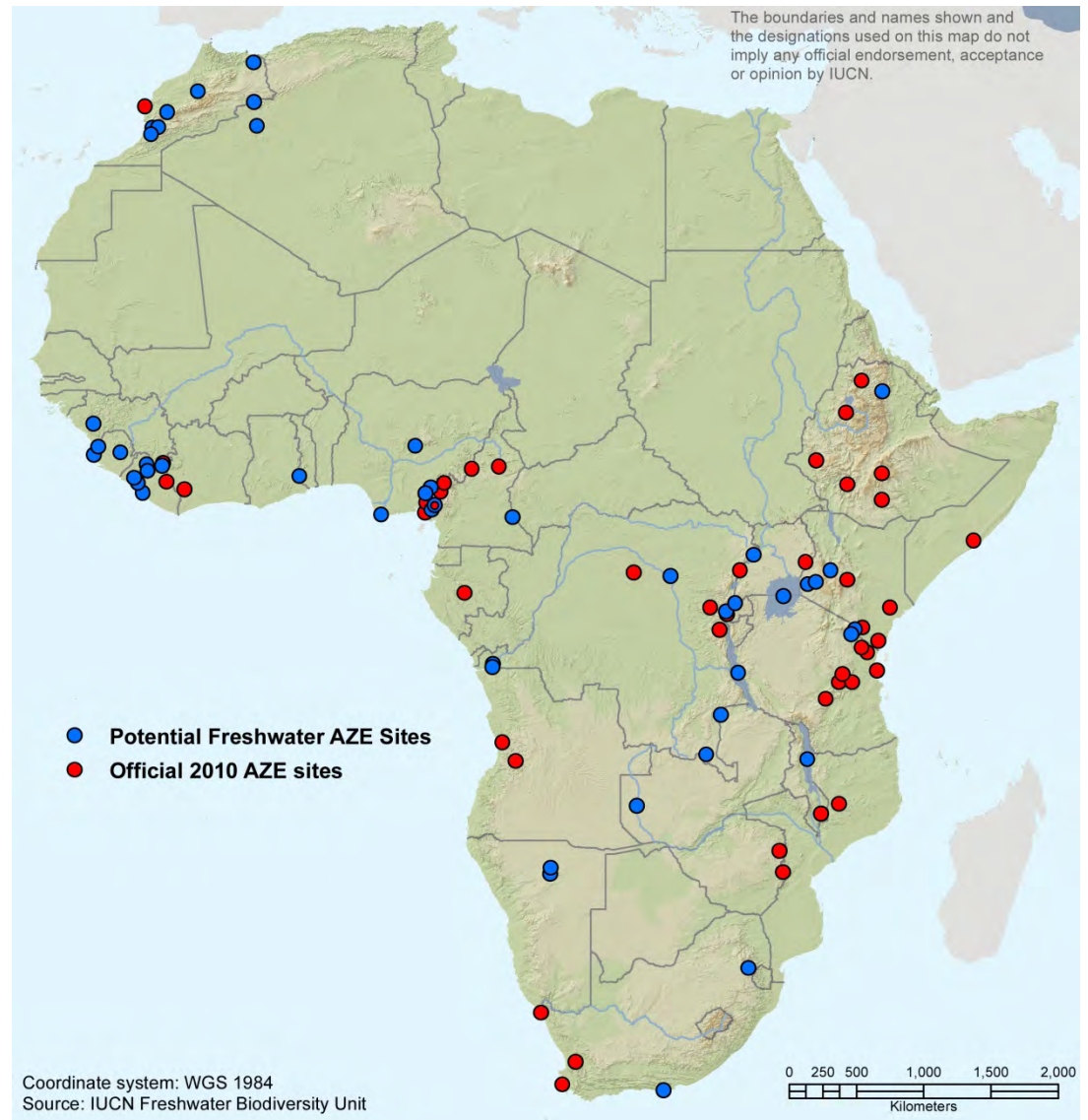
Alliance for Zero Extinction

Subset of KBAs.

Site that hold the last remaining populations of Critically Endangered or Endangered species.

Pan-Africa assessment has helped identify 42 potential AZE sites for freshwater species.

<http://www.zeroextinction.org/>

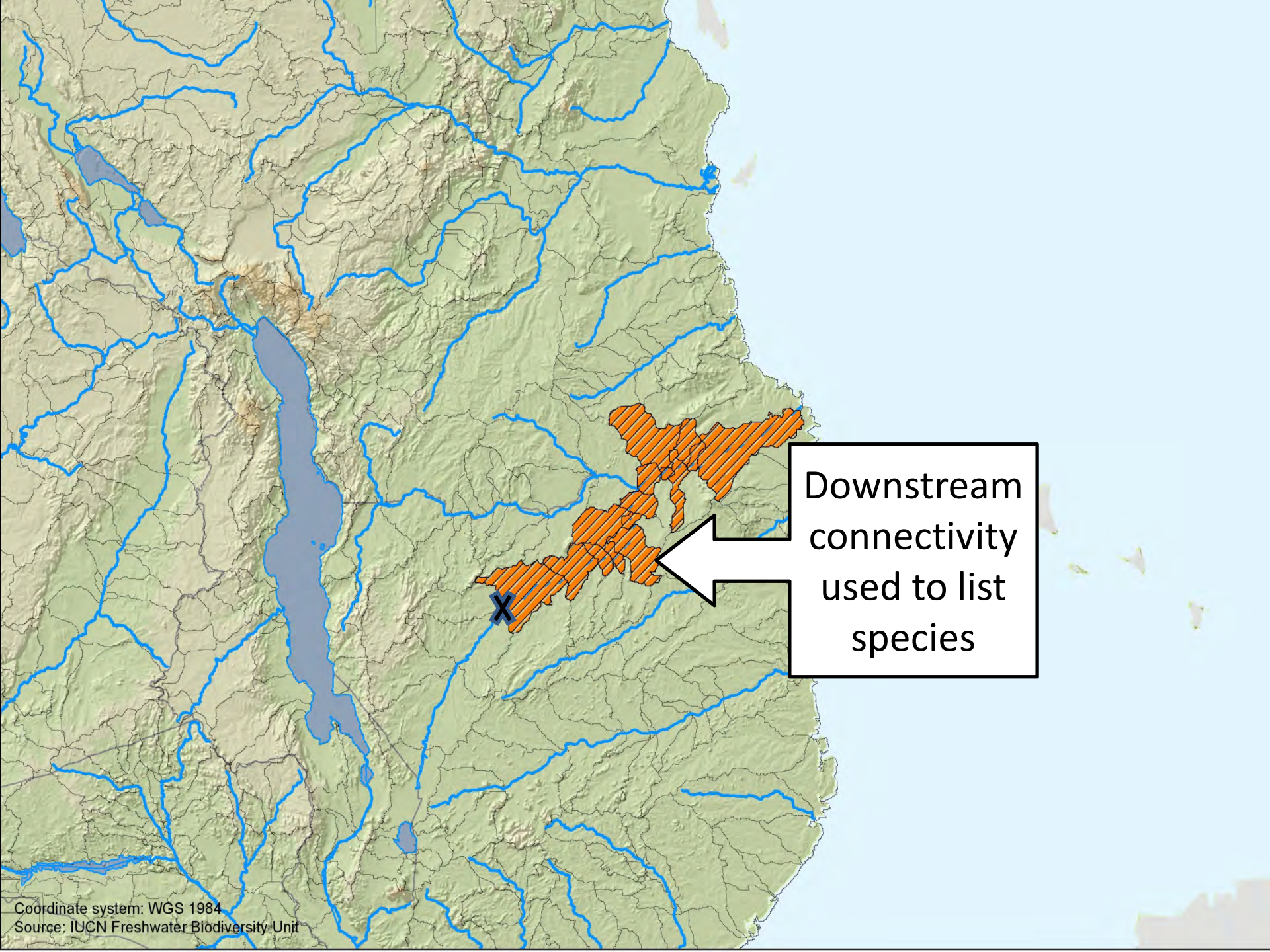


Impacts of development



Site of
potential
dam/mine
etc





Downstream
connectivity
used to list
species

Using Red List Assessments to inform site surveys

IUCN Red List data (when available) can help EIA's and other site survey work in a number of ways. For example an EIA survey at a potential site for a mine, may identify many freshwater species, and by:

- incorporating the IUCN Red List category for each species will put the species into a global conservation context. Many of the species may be globally threatened with extinction.
- using information on the species global range provided by the Red List Assessment, those species endemic to the site, wider catchment or country can be identified.
- using other data from the Red List Assessment e.g. information on the species ecology, habitat needs, migratory habits, global range etc. possible mitigation measure can be informed.
- using species utilisation information, species that are important to local livelihoods or even national economies can be identified.

Summary of potential application of outputs to your work

- Regional planning
- Funding focus
- On the ground cons projects – such as EFLows
- IRBM
- Donor safeguards
- Private sector site selection
- EIAs
- PA design for FW systems
-