



Work package 2 IUCN

Moumini Savadogo

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Species' diversity and conservation status

CONTENT

Objectives

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Perspectives

Result = A national meta-database

1. *Existing bio-physical characteristics of fisheries (river size, catchment size, turbidity, etc.)*
2. *The diversity and conservation status of fish species and benthic invertebrates, land use, chemical water quality, etc.)*
3. *The pressures on fish populations (over-fishing, etc.)*

Main activities

1. Identify and collect critical data
2. Data analysis
3. Database established and organized
4. Assess the conservation status of fishes (in collaboration with the Museum of Natural History in Vienna and the Africa Museum in Belgium)
5. Capitalise/document the results of the research

Achievements so far (A)

1. Data collected and reviewed at national, regional and websites (West African databases and global databases) – All important docs collected? Scanning
2. Analyses of the collected data (computing)
3. National meta-database initiated and under finalisation (2 interns and librarian);
4. Partners trained on Red listing (fish and invertebrates)
5. Road map for national Red listing (fish)
6. Plan for publications

West Africa (B)

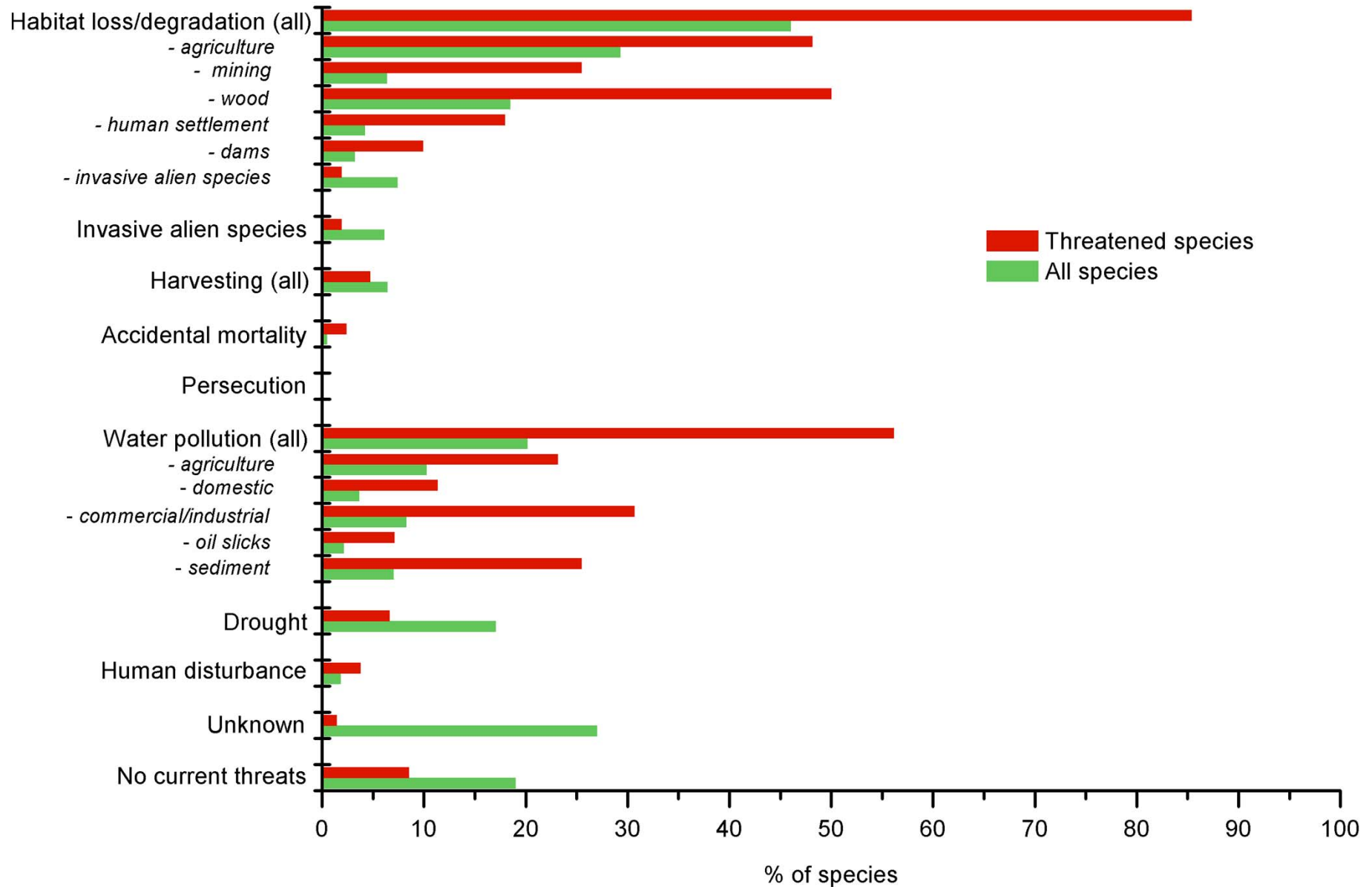
Estimated numbers of inland water-dependent species by major taxonomic group

Taxon	Number of described species	Number of species in western Africa	% of global total found in western Africa
Fishes	~15,000	563	4%
Molluscs	~ 5,000	90	2%
Odonates	5,680	287	5%
Crabs	1,446	35	2%
Amphibians	4,231	150	4%
Mammals	145	16	11%
Waterbirds	730	179	25%
Turtles	260	3	1%
Plants	c. 2,614	472	18%

The IUCN Red List Category classifications by taxonomic groupings (B)

Taxon	Total	EX	EW	CR	EN	VU	NT	LC	DD
Fishes	521	0%	0%	3%	8%	15%	11%	52%	11%
Odonata	287	0%	0%	2%	2%	5%	1%	76%	14%
Molluscs	90	0%	0%	6%	6%	6%	2%	6%	16%
Crabs	25	0%	0%	8%	16%	16%	0%	40%	<u>20%</u>
Aquatic Plants	472	0%	0%	1%	0%	1%	1%	75%	<u>22%</u>
Total	1,395	0%	0%	2%	4%	8%	5%	66%	16%

Threats to freshwater species in WA (B)



Species diversity in Burkina Faso (B)

- 114 species (Roman (1959-1965): Volta Basin (300 samplings)
- 32 species (CTFT, 1967 et 1968, 8 sites in the middle part of the country- plateau-central).
- 42 species (VPH 1989- 1991; 8 sites in the middle and southern regions
- 29 species (GPSO, 1989-1991; South-West region)
- 56 species, 396 stations (Raymond 2008-2009; Koubri);
- 131 species (Ahouanssou Monchto 2011; Pendjari river – 2006-2008)

Some (around 10) species seemed to be missing or rarely met (not observed since 1968) → Threaten

→ 131 fish species

Case of the Volta Basin (B)

- 160 fish species known in the Volta Basin (Lalèyè et Entsua-Mensah 2010)
 - 8 species considered as endemic (*Lévêque et al. 1990 et 1992, Lévêque et al. 1991, Paugy et al. 2003, Lalèyè et Entsua-Mensah 2010*).
- ➔ **Specific richness of the basin 161 espèces (Ahouanssou Moncho, 2011)**

Some references

- IUCN Red lists of Species www.iucnredlist.org
- Global biodiversity information facility (GBIF) www.gbif.org ;
- World Database on Protected areas (UNEP) www.wdpa.org;
- Key Biodiversity Areas www.iucn.org/KBAs ;
- Linking conservation to economy - The Economics of ecosystems and biodiversity (TEEB): www.teebweb.org
- Global fish data base : www.fishbase.org
- California Academy of Sciences- Institute of biodiversity science and sustainability; Catalog of fishes <http://research.calacademy.org>
- Université d'Abomey-Calavi -Laboratoire d'Hydrobiologie et d'Aquaculture (LHA) www.lha.uac.net

Road map for redlisting (C)

Steps	Activities	Resp	Actors involved	Period					
				2013 et 2014					
				T1	T2	T3	T4	T5	T6
Launching	Draft the TOR	UICN	Prof LALEYE	■					
	Collect data	Raymond	Dt OUEDA ; TOE	■					
Evaluation per s/bassin	Kick-off meeting	UICN	SUSFISH		■				
	Description of threats	Zerbo	Raymond ; Dibloni ; Mme Kaboré, Savadogo M,		■				
	Evaluation per s/bassin	OUEDA	SUSFISH		■				
Pre validation	National workshop (restitution and validation)	UICN	SUSFISH, Other national experts , Focal points (BD & Ramsar); IRD			■			
	finalization	UICN	Equipe d'évaluateurs			■			
validation	Submission to IUCN experts for checking	UICN	Prof LALEYE ; CSE/UICN			■	■	■	
Publication	Edition and diffusion	UICN	SUSFISH, all partners					12	■

Publications (C)

Themes	Type	Resp.	Deadline
Guide on law/regulations of fisheries exploitation and conservation in Burkina Faso	Guide	M. Savadogo, CEL/IUCN	Déc. 2013
State of knowledge on fisheries exploitations and conservation (literature review)	Working paper	M. Savadogo & Raymond	Déc. 2013
Conservation and Ecosystem services in West Africa	Communication	NIANOGO & M.Savadogo	Juin 2013
National Fish species redlist	Scientific book	Evaluation team	

Working with Jan? (D)

- Feed the analyses with available data/Share information (data base)
- Supporting the analyses with ecosystem perspectives

THANK FOR YOUR KIND ATTENTION