

BioRA Preparation Meeting
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Frog and reptile Indicators Status and Trend Assessment

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Indicator: Ranid and Helid amphibian

- *Hylarana nigrovittata*



Status:

- Unwell known, even in the IUCN list is just considered as least concerned species

Area	Status	Abundance estimates as % relative to 2015			
		2015	1900	1950	1970
Mekong River in Laos PDR	C	123%	123%	123%	110%
Mekong River in Laos PDR/Thailand	C	123%	123%	123%	110%
Mekong River in Cambodia	C	123%	123%	123%	110%
Tonle Sap River	-	-	-	-	-
Tonle Sap Great Lake	-	-	-	-	-
Mekong Delta	-	-	-	-	-

Indicator: Ranid and Helid amphibian

Status:

- Tiger frog inhabits in various environment refugium, such as paddy field, irrigation infrastructure, fish pond, agricultural farm, ditch, floodplain wetland, forest pools, and other wet area

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	C	123%	123%	123%	111%
Mekong River in Laos PDR/Thailand	C	123%	123%	123%	111%
Mekong River in Cambodia	C	123%	123%	123%	111%
Tonle Sap River	C	123%	123%	123%	111%
Tonle Sap Great Lake	C	123%	123%	123%	111%
Mekong Delta	C	159%	159%	159%	143%

Indicator: Aquatic serpents

Enhydryis bocourti

Status:

- Found in freshwater swamps, shallow lakes, pools and other stagnant water habitats in the lowland and low hills at elevation up to ca 200m (Das 2010, Murphy 2007), and also near water bodies (Das 2010).
- Bocourt water snake was common in the rural areas surrounding

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	-	-	-	-	-
Mekong River in Laos PDR/Thailand	-	-	-	-	-
Mekong River in Cambodia	D	250%	250%	250%	200%
Tonle Sap River	D	250%	250%	250%	200%
Tonle Sap Great Lake	D	250%	250%	250%	200%

Indicator: Aquatic serpents

Status:

- It inhabits both terrestrial and aquatic habitats. It occurs a wide range of habitat including natural and artificial ones such thrive in wet, open, lowland habitats, include rice fields, gardens, road-side ditches, canals, ponds, and lakes (Wogan *et al.* 2012) up to 1676 m (Das 2010). It is a nocturnal and arboreal. It feeds mainly on other snakes

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	-	-	-	-	-
Mekong River in Laos PDR/Thailand	-	?	?	?	?
Mekong River in Cambodia	-	?	?	?	?
Tonle Sap River	C	220%	198%	178%	143%
Tonle Sap Great Lake	C	220%	198%	178%	143%
Mekong Delta	C	257%	231%	208%	167%

Indicator: Semi-aquatic serpents

Status:

- This species occurs in wide range of habitats including wet and dry forests, particularly in clearings and edges, and in grasslands, plantations, agricultural fields, even in suburban and urban areas. Not much in the forest, but found much around human habitation and rice fields (Nguyen *et al.* 2014).
- Thailand were reported to be decline due to exporting to China 25

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	■	■	■	■	■
Mekong River in Laos PDR/Thailand	■	■	■	■	■
Mekong River in Cambodia	C	200%	180%	150%	110%
Tonle Sap River	C	200%	180%	150%	110%
Tonle Sap Great Lake	C	200%	180%	150%	110%
Mekong Delta	D	400%	330%	300%	200%

Indicator: Semi-aquatic serpents

Status:

- Burmese python is mostly found in forested areas, including mangrove

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	D	277%	277%	250%	200%
Mekong River in Laos PDR/Thailand	D	277%	277%	250%	200%
Mekong River in Cambodia	D	277%	277%	250%	200%
Tonle Sap River	D	277%	277%	250%	200%
Tonle Sap Great Lake	D	277%	277%	250%	200%
Mekong Delta	E	1111%	1111%	1000%	500%

Indicator: Aquatic turtles

Status:

- Live in marshes, swamps, and large muddy rivers at lower elevations.
- At global, population was estimated, inferred or suspected reduction of at least 20% over the last 10 years
- Reduction of at least 20%, projected or suspected to be met within the next ten years or three generations (Asian Turtle)

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	-	-	-	-	-
Mekong River in Laos PDR/Thailand	C	200%	200%	180%	140%
Mekong River in Cambodia	C	200%	200%	180%	140%
Tonle Sap River	C	200%	200%	180%	140%
Tonle Sap Great Lake	C	200%	200%	180%	140%

Indicator: Aquatic turtles

Malayan snail-eating turtle *Malayemys subtrijuga*

Status

- The population in the Tonle Sap system is reported to have

Area	Status	Abundance estimates as % relative to 2015				
	2015	1900	1950	1970	2000	
Mekong River in Laos PDR	-	-	-	-	-	
Mekong River in Laos PDR/Thailand	?	?	?	?	?	
Mekong River in Cambodia	?	?	?	?	?	
Tonle Sap River	?	?	?	?	?	
Tonle Sap Great Lake	E	2469%	2222%	2000%	1000%	
Mekong Delta	D	400%	350%	300%	200%	

Indicator: Semi-aquatic Turtles

Status:

- The species occurs mainly tropical rainforest areas and often in the rice paddies, marshes, and shallow ponds in these tropical areas (Barbour and Ernst 1992, Bourret 1943).

Area	Status	Abundance estimates as % relative to 2015				
	2015	1900	1950	1970	2000	
Mekong River in Laos PDR	-	-	-	-	-	
Mekong River in Laos PDR/Thailand	-	-	-	-	-	
Mekong River in Cambodia	D	198%	198%	178%	143%	
Tonle Sap River	D	198%	198%	178%	143%	
Tonle Sap Great Lake	D	198%	198%	178%	143%	
Mekong Delta	-	300%	270%	250%	200%	

Indicator: Semi-aquatic Turtles

Status:

- At global scale, the species is decline throughout its range. Within LMB, the *Heosemys grandis* to be uncommon to rare, and presumed to be depleted in most areas (van Dijk, 1999). No information on population status in Viet Nam is available

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	-	-	-	-	-
Mekong River in Laos PDR/Thailand	?	?	?	?	?
Mekong River in Cambodia	D	198%	198%	178%	143%
Tonle Sap River	D	198%	198%	178%	143%
Tonle Sap Great Lake	D	198%	198%	178%	143%
Mekong Delta	D	277%	277%	250%	200%

Amphibians available for human consumption

Area	Status	Abundance estimates as % relative to 2015			
	2015	1900	1950	1970	2000
Mekong River in Laos PDR	C	124%	124%	124%	112%
Mekong River in Laos PDR/Thailand	C	124%	124%	124%	112%
Mekong River in Cambodia	C	124%	124%	124%	112%
Tonle Sap River	C	120%	120%	120%	110%
Tonle Sap Great Lake	C	124%	124%	124%	112%

Aquatic/ semi-aquatic reptiles available for human exploitation



Area	Status	Abundance estimates as % relative to 2015				
	2015	1900	1950	1970	2000	
Mekong River in Laos PDR	C	185%	185%	167%	133%	
Mekong River in Laos PDR/Thailand	C	185%	185%	167%	133%	
Mekong River in Cambodia	C	185%	185%	167%	133%	
Tonle Sap River	C	185%	185%	167%	133%	
Tonle Sap Great Lake	D	296%	296%	267%	200%	
Mekong Delta	D	296%	296%	267%	200%	

Species richness of riparian amphibians

Area	Status	Abundance estimates as % relative to 2015				
	2015	1900	1950	1970	2000	
Mekong River in Laos PDR	100%	100%	100%	100%	100%	
Mekong River in Laos PDR/Thailand	100%	100%	100%	100%	100%	
Mekong River in Cambodia	100%	100%	100%	100%	100%	
Tonle Sap River	100%	100%	100%	100%	100%	
Tonle Sap Great Lake	100%	100%	100%	100%	100%	
Mekong Delta	100%	100%	100%	100%	100%	

and riparian amphibians.

THANKS YOU FOR YOUR KIND ATTENTION