

UNEP-WCMC DRAFT REPORT

Notes on the development of a rapid assessment technique for the review of animal taxa

Introduction

Resolution 11.1 instructed the Animals and Plants Committees to undertake periodic reviews of species included in the CITES Appendices

Moreover, since its 15th meeting, the Animals Committee have undertaken a number of actions directed towards conducting such reviews.

This document has been prepared by UNEP-WCMC, following a number of discussions on the topic with the CITES Secretariat, to provide some suggestions on the process of development of a technique for the rapid review of animal taxa.

The suggestions presented in this document take into account the need to ensure that the process is effectively *rapid*, and thus time- and cost-effective, while allowing for the identification of those cases which may require a more comprehensive review.

Flow chart of activities and decision-making process

Annex 1 to this document illustrates a flow chart with a proposed sequence of activities, and the decision-making process for the purpose of conducting rapid reviews of animal taxa.

It is proposed that once a taxon has been selected for review, the review process should commence with an analysis of the trade. It is suggested that consideration should be given to the convenience of retaining in Appendix II species that may qualify for listing according to the criteria in Res. 9.24 Annex 2b (i.e. look-alike species) *before* proceeding to investigate the status of the population(s), since this information would be mostly irrelevant in that context and would delay the process without providing any obvious benefit.

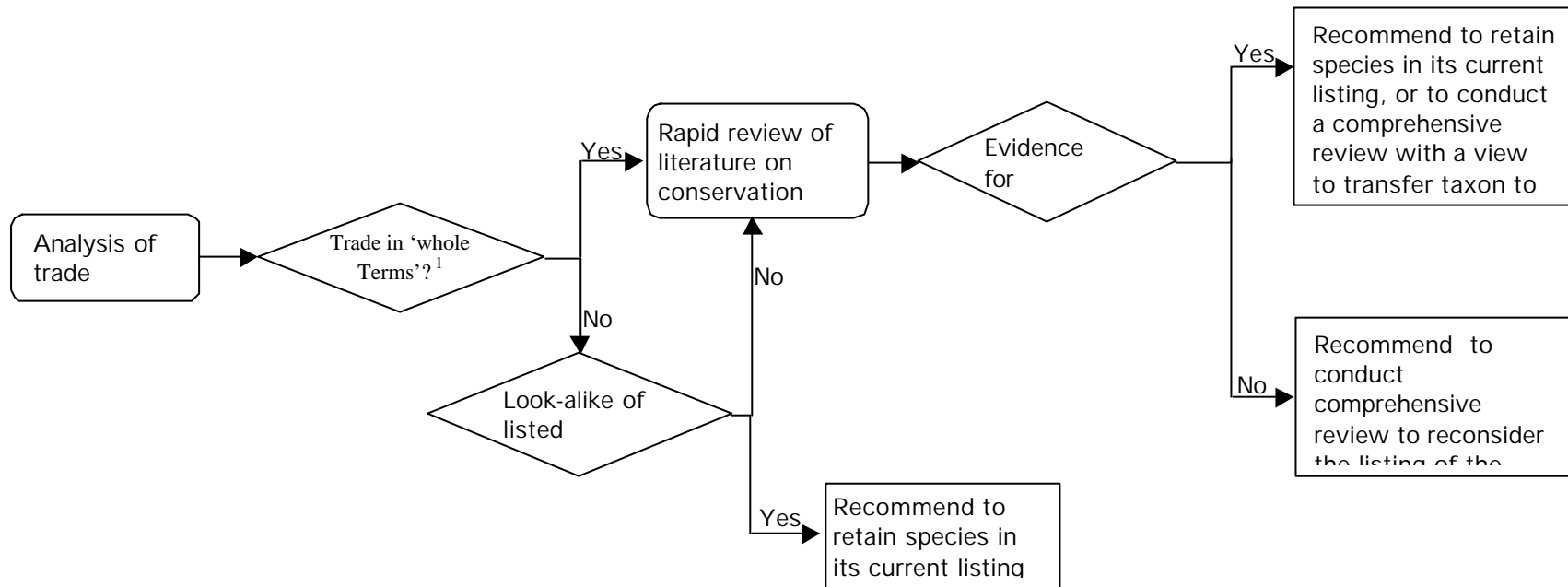
Analysis of trade volumes

Annex 2 to this document provides an example of the synoptic tables suggested for the initial rapid analysis of trade discussed here. The data in this example refer to trade in CITES-listed Amphibians between 1990 and 2000. A final table lists taxa **not** subject to trade during the period in question.

a) Terms: It is suggested that the process of Rapid Review of taxa should focus chiefly on terms of trade that involve the taking or the destruction of whole organisms (e.g. LIV, BOD, MEA, etc.). Prior to investigating the status of the population(s) of the taxon in question, no lower limit can be established to determine levels of trade that could be considered not significant. Thus, so long as there exists trade in these terms, an assessment of the status of the population should be conducted, as suggested in the sequence of activities in Annex 1 to this document. Trade in other terms (e.g. EGG, SPE or UNS) is not included.

b) Sources: Attention is given to records of trade from the wild or from ranching operations, and to those instances in which the source has not been reported ('Not Available'). Note that the latter case often involves considerable volumes, and that in principle part or all of this trade could be of wild source, and is therefore of interest to this analysis. Trade in specimens that have been bred in captivity is not included.

Annex 1. Chart flow of activities for the rapid review of animal taxa.



¹ The expression 'whole Terms' refers in this instance to any volume of trade in Terms involving the taking or destruction of whole organisms.

Annex 2
Synoptic tables suggested for the initial rapid analysis of CITES-listed Amphibians

Trade in *Allobates femoralis* (1996 - 2000)

Source	Term	Unit*	Data	1993	1994	1996	1998	1999	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	110	5	25	12	10	162
			Importers	100	0	0	0	0	100
Total (re-)Exporters				110	5	25	12	10	162
Total Importers				100	0	0	0	0	100

Trade in *Altiphrynoides malcolmi* (1996 - 2000)

Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in *Ambystoma dumerilii* (1996 - 2000)

Source	Term	Unit*	Data	1995	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	8	8
			Importers	0	0
Total (re-)Exporters				8	8
Total Importers				0	0

Trade in *Ambystoma lermaense* (1996 - 2000)

Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in *Ambystoma mexicanum* (1996 - 2000)

Source	Term	Unit*	Data	1992	1993	1994	1995	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters			70	8	78
			Importers			74	0	74
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0	2018	75	2093
			Importers	2	30	0	30	62
Total (re-)Exporters				0	0	2088	83	2171
Total Importers				2	30	74	30	136

Trade in *Andrias japonicus* (1996 - 2000)

Source	Term	Unit*	Data	1998	1999	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	8	0	8
			Importers	0	11	11
Total (re-)Exporters				8	0	8
Total Importers				0	11	11

Trade in *Andrias* spp. (1996 - 2000)

Source	Term	Unit*	Data	1991	Grand Total
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	30	30
			Importers	0	0
Total (re-)Exporters				30	30
Total Importers				0	0

Trade in *Atelopus varius zeteki* (1996 - 2000)

Source	Term	Unit*	Data	1992	1997	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	10	10	20
			Importers	0	0	0
Total (re-)Exporters				10	10	20
Total Importers				0	0	0

Trade in *Bufo retiformis* (1996 - 2000)

Source	Term	Unit*	Data	1996	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	0	0
			Importers	20	20
Total (re-)Exporters				0	0
Total Importers				20	20

Trade in *Dendrobates anthonyi* (1996 - 2000)

Trade in *Dendrobates arboreus* (1996 - 2000)

Source	Term	Unit*	Data	1994	Grand Total		
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0		
Source	Term	Unit*	Data	1990	1991	1992	Grand Total
Total (re-)Exporters	LIV, BOD, MEA or DER		(re-)Exporters	0	36	0	36
			Importers	0	0	0	0
Total Importers				50	0	50	100
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	9	0	9
			Importers	1	0	0	1
Total (re-)Exporters				0	9	36	45
Total Importers				1	0	0	1

Trade in *Dendrobates auratus* (1996 - 2000)

Source	Term	Unit*	Data	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters			448	1895	2358	2069	928	972	167	34	8871
			Importers			342	751	930	1968	2291	990	133	0	7405
R	LIV, BOD, MEA or DER		(re-)Exporters					42	0			245	476	721
			Importers									132	275	407
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	47		0			34				139
			Importers	4	0		1121	918	322	0				
Total (re-)Exporters				0	47	448	1895	2400	2069	962	972	412	526	9731
Total Importers				4	0	342	1872	1848	2290	2291	990	265	275	10177

Trade in *Dendrobates azureus* (1996 - 2000)

Source	Term	Unit*	Data	1994	1995	1997	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters			0	0
			Importers			20	20
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0		0
			Importers	38	15		53
Total (re-)Exporters				0	0	0	0
Total Importers				38	15	20	73

Trade in *Dendrobates biolat* (1996 - 2000)

Source	Term	Unit*	Data	1997	1998	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	3	10	13
			Importers	0	0	0
Total (re-)Exporters				3	10	13
Total Importers				0	0	0

Trade in *Dendrobates fantasticus* (1996 - 2000)

Trade in *Dendrobates galactonotus* (1996 - 2000)

Source	Term	Unit*	Data	1998	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	0	0
			Importers	5	5
Total (re-)Exporters				0	0
Total Importers				5	5
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0
			Importers	10	10
Total (re-)Exporters				0	0
Total Importers				10	10
W	LIV, BOD, MEA or DER		(re-)Exporters	0	0
			Importers	5	5
Total (re-)Exporters				0	0
Total Importers				5	5
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0
			Importers	32	32
Total (re-)Exporters				0	0
Total Importers				32	32
Total (re-)Exporters				10	10
Total Importers				42	42

Trade in Dendrobates histrionicus (1996 - 2000)

Source	Term	Unit*	Data	1992	1994	1995	1996	1997	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	20		0	0	37	57
			Importers	10		480	325	112	927
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	10				10
			Importers	25	631				656
Total (re-)Exporters				20	10	0	0	37	67
Total Importers				35	631	480	325	112	1583

Trade in Dendrobates imitator (1996 - 2000)

Source	Term	Unit*	Data	1998	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	191	191
			Importers	0	0
Total (re-)Exporters				191	191
Total Importers				0	0

Trade in Dendrobates lamasi (1996 - 2000)

Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in Dendrobates lehmanni (1996 - 2000)

Trade in Dendrobates leucomelas (1996 - 2000)

Source	Term	Unit*	Data	Year	Grand Total
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0
			Importers		
Total (re-)Exporters				0	0
Total Importers					
Total (re-)Exporters				0	0
Total Importers					
Total (re-)Exporters				18	38
Total Importers				4	0
Total (re-)Exporters				18	38
Total Importers				4	0

Trade in *Dendrobates quinquevittatus* (1996 - 2000)

Source	Term	Unit*	Data	Year					Grand Total		
				1992	1993	1994	1995	1996		1997	1998
W	LIV, BOD, MEA or DER		(re-)Exporters	20	1	1		7	7	17	53
			Importers	10	0	0		0	0	0	10
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters			0	0				0
			Importers			80	30				110
Total (re-)Exporters				20	1	1	0	7	7	17	53
Total Importers				10	0	80	30	0	0	0	120

Trade in *Dendrobates reticulatus* (1996 - 2000)

Source	Term	Unit*	Data	Year		Grand Total
				1998	1999	
W	LIV, BOD, MEA or DER		(re-)Exporters	323		323
			Importers	37		37
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	100		100
			Importers	0		0
Total (re-)Exporters				423		423
Total Importers				37		37

Trade in *Dendrobates speciosus* (1996 - 2000)

Source	Term	Unit*	Data	Year				Grand Total
				1990	1991	1992	1998	
W	LIV, BOD, MEA or DER		(re-)Exporters			44	0	44
			Importers			4	20	24
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	18			18
			Importers	2	0			2
Total (re-)Exporters				0	18	44	0	62
Total Importers				2	0	4	20	26

Trade in *Dendrobates* spp. (1996 - 2000)

Source	Term	Unit*	Data	Year										Grand Total	
				1990	1991	1992	1993	1994	1995	1996	1998	1999			
W	LIV, BOD, MEA or DER		(re-)Exporters		0	122	2	12		0	20	0			156
			Importers		30	205	100	107		15	0	12			469
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	9		0	0	0	8					17
			Importers	75	25		1070	169	70	0					1409
Total (re-)Exporters				0	9	122	2	12	0	8	20	0		173	
Total Importers				75	55	205	1170	276	70	15	0	12		1878	

Trade in *Dendrobates tinctorius* (1996 - 2000)

Source	Term	Unit*	Data	Year										Grand Total	
				1990	1991	1992	1993	1994	1995	1996	1997	1998	1999		
W	LIV, BOD, MEA or DER		(re-)Exporters		0	709	625	746	1581	1352	9	178			5200
			Importers		50	26	501	327	679	1224	850	1438			5095
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	500	350	0	0	10	0	0	0			860	
			Importers	74	0	288	15	214	65	13088				12807	
Total (re-)Exporters				500	350	709	625	756	1581	1352	9	178		10660	
Total Importers				74	0	288	15	214	65	13088				1902	

Source	Term	Unit*	Data	Year		Grand Total
				1994	1995	
W	LIV, BOD, MEA or DER		(re-)Exporters			0
			Importers			15
Total (re-)Exporters						0
Total Importers						15

Source	Term	Unit*	Data	Year			Grand Total
				1993	1995	1998	
W	LIV, BOD, MEA or DER		(re-)Exporters				0
			Importers				20
Total (re-)Exporters							0
Total Importers							20

Source	Term	Unit*	Data	Year		Grand Total
				1997	1998	
W	LIV, BOD, MEA or DER		(re-)Exporters			0
			Importers			3
Total (re-)Exporters						0
Total Importers						3

Source	Term	Unit*	Data	Year		Grand Total
				1994	1995	
W	LIV, BOD, MEA or DER		(re-)Exporters			9
			Importers			10
Total (re-)Exporters						9
Total Importers						10

Source	Term	Unit*	Data	Year		Grand Total
				1994	1995	
W	LIV, BOD, MEA or DER		(re-)Exporters			0
			Importers			250
Total (re-)Exporters						0
Total Importers						250

Trade in Epipedobates maculatus (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in Epipedobates pictus (1996 - 2000)

				Year				
Source	Term	Unit*	Data	1994	1995	1997	1998	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	1	0	1	35	37
			Importers	0	16	0	0	16
Total (re-)Exporters				1	0	1	35	37
Total Importers				0	16	0	0	16

Trade in Epipedobates simulans (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in Epipedobates spp. (1996 - 2000)

				Year				
Source	Term	Unit*	Data	1996	1997	1998	Grand Total	
Trade in Epipedobates zaphiro (1996 - 2000)								
			(re-)Exporters	57	12	14	83	
			Importers	0	0	0	0	
Total (re-)Exporters				57	12	14	83	
Total Importers				0	0	0	0	
Trade in Epipedobates tricolor (1996 - 2000)								
			(re-)Exporters	15	0	2	17	
			Importers	0	80	20	100	
Total (re-)Exporters				15	0	2	17	
Total Importers				0	80	20	100	
Total (re-)Exporters				0	0	15	59	74
Total Importers				526	80	20	100	826

Trade in *Hoplobatrachus tigerinus* (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in *Mantella aurantiaca* (1996 - 2000)

				Year					Grand Total
Source	Term	Unit*	Data	1994	1995	1996	1997	1998	
W	LIV, BOD, MEA or DER		(re-)Exporters	0	11736	16757	17692	31759	77944
			Importers	50	4430	6962	11439	13573	36454
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0	9	0	0	9
			Importers	50	1100	0	200	100	1450
Total (re-)Exporters				0	11736	16766	17692	31759	77953
Total Importers				100	5530	6962	11639	13673	37904

Trade in *Mantella bernhardi* (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in *Mantella betsileo* (1996 - 2000)

Trade in *Mantella cowani* (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				
Total (re-)Exporters				
Total Importers				
Total (re-)Exporters				
Total Importers				

Trade in *Mantella expectata* (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in *Mantella laevigata* (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in *Mantella madagascariensis* (1996 - 2000)

				Year
Source	Term	Unit*	Data	Grand Total
Total (re-)Exporters				
Total Importers				

Trade in *Mantella pulchra* (1996 - 2000)

Trade in *Mantella* spp. (1996 - 2000)

				Year	
Source	Term	Unit*	Data	Grand Total	
Total (re-)Exporters					
Total Importers					
W	LIV, BOD, MEA or DER		(re-)Exporters	4	4
Source	Term	Unit*	Data	Grand Total	
Total (re-)Exporters				4	4
Total Importers				0	0

Trade in *Minyobates fulguritus* (1996 - 2000)

				Year		Grand Total
Source	Term	Unit*	Data	1992	1996	
W	LIV, BOD, MEA or DER		(re-)Exporters	8		8
			Importers	0		0
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters		4	4
			Importers		0	0
Total (re-)Exporters				8	4	12
Total Importers				0	0	0

Trade in *Minyobates minutus* (1996 - 2000)

				Year			Grand Total
Source	Term	Unit*	Data	1990	1991	1992	
W	LIV, BOD, MEA or DER		(re-)Exporters			8	8
			Importers			0	0
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	10	10		20
			Importers	0	0		0
Total (re-)Exporters				10	10	8	28
Total Importers				0	0	0	0

Trade in *Nectophrynoides minutus* (1996 - 2000)

				Year		Grand Total
Source	Term	Unit*	Data	1990	1992	
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	4		4
			Importers	0		0
Total (re-)Exporters				4		4
Total Importers				0		0

Trade in *Nectophrynoides* spp. (1996 - 2000)

				Year		Grand Total
Source	Term	Unit*	Data	1990	1992	
Total (re-)Exporters						
Total Importers						

Trade in *Nectophrynoides tornieri* (1996 - 2000)

Trade in *Nectophrynoides viviparus* (1996 - 2000)

				Year		Grand Total				
Source	Term	Unit*	Data	1992	1996					
Total (re-)Exporters										
Total Importers										
				Year						
Source	Term	Unit*	Data	1990	1991	1992	1996	1997	1998	Grand Total
W	LIV, BOD, MEA or DER		(re-)Exporters	80	25	128	2	0	191	516
			Importers	0	0	64	3	185	391	673
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	245	100	0				345
			Importers	0	0	21				21
Total (re-)Exporters				245	100	80	2	0	191	861
Total Importers				0	0	85	3	185	391	673
				Year		Grand Total				
Source	Term	Unit*	Data	1992	1994					
W	LIV, BOD, MEA or DER		(re-)Exporters	30	0	30				
			Importers							
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters		12	12				
			Importers		11	11				
Total (re-)Exporters				30	12	42				
Total Importers				0	11	11				

Trade in Phyllobates spp. (1996 - 2000)

Source	Term	Unit*	Data	Year				Grand Total
				1990	1993	1994	1997	
W	LIV, BOD, MEA or DER		(re-)Exporters		0		10	10
			Importers		7		0	7
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	50		0		50
			Importers	0		10		10
Total (re-)Exporters				50	0	0	10	60
Total Importers				0	7	10	0	17

Trade in Phyllobates terribilis (1996 - 2000)

Source	Term	Unit*	Data	Year	
				Grand Total	
Total (re-)Exporters					
Total Importers					

Trade in Phyllobates vittatus (1996 - 2000)

Source	Term	Unit*	Data	Year				Grand Total
				1993	1994	1997	1998	
W	LIV, BOD, MEA or DER		(re-)Exporters	0		10	0	10
			Importers	3		0	36	39
Not Avail. or U	LIV, BOD, MEA or DER		(re-)Exporters	0	0		0	0
			Importers	4	190		14	208
Total (re-)Exporters				0	0	10	0	10
Total Importers				7	190	0	50	247

Amphibian taxa not in trade 1990-2000

Bufo periglenes
Bufo superciliaris

Nectophrynoides cryptus
Nectophrynoides wendyae

Nimbaphrynoides liberiensis
Nimbaphrynoides occidentalis

Spinophrynoides osgoodi

Dendrobates bilinguis
Dendrobates bolivianus
Dendrobates captivus
Dendrobates castaneoticus
Dendrobates labialis
Dendrobates mysteriosus
Dendrobates occulator
Dendrobates rufulus
Dendrobates sirensis

Epipedobates andinus
Epipedobates erythromos
Epipedobates espinosai
Epipedobates ingeri
Epipedobates myersi
Epipedobates parvulus
Epipedobates petersi
Epipedobates pulchripectus
Epipedobates smaragdinus

Minyobates abditus
Minyobates altobueyensis
Minyobates bombetes
Minyobates fulguritus
Minyobates opisthomelas
Minyobates steyermarki
Minyobates viridis

Rheobatrachus silus
Rheobatrachus vitellinus

Euphlyctis hexadactylus

Mantella haraldmeieri