

## African Treefrogs (Hyperoliidae, Rhacophoridae and genus *Leptopelis*) in the Zoological Museum, Copenhagen.

The present list, compiled in 2007, include all African treefrogs presently recognized and thereby serve to give an impression of the comprehensiveness of the Copenhagen collection.

The material is mainly collected by Arne Schiøtz between 1958 and 2005. The frogs collected by him are anaesthetized with Chlorbutole and immediately thereafter preserved in 70% alcohol, with the exception of the material from Nigeria 1958-59, which was preserved in 40% isopropanole and later transferred to 70% alcohol.

Types are indicated: H = holotype, P = paratype(s).

Note that the *Hyperolius viridiflavus* superspecies is listed separately under the "subspecies" name. The species structure in this group is unsettled and disputed.

Mating calls and colour-pattern in life are essential taxonomic characters. Tape recordings of the voices and colour slides/digital photos are deposited at the Zoological Museum (library, vertebrate dept.). The originals of Schiøtz' own tapes are placed in the Macaulay Library, Cornell University, with copies at ZM. Voices recorded by colleagues are also placed at the Zoological Museum but may, for copyright reasons, not be available. Detailed lists of voices and photos are deposited at ZM.

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Name	Material	Types	Voice	Photo	Notes
<b>Acanthixalus</b> spinosus	X			X	
A. sonjae					
<b>Afrixalus</b> aureus *	X		X	X	* means "Eastern Dwarfs" with unsettled taxonomy
A. brachycnemis *	X		X	X	AS 99: A.sp. (part). Perhaps ssp of stuhlmanni
A. clarkei	X	P	X	X	
A. crotalus *			X	X	perhaps ssp. of aureus
(A. dabagae) *	X	H	X	X	syn. of A. morerei
A. delicatus *	X		X	X	in AS 74,75: delicatus. AS 99: brachycnemis(part)
A. dorsalis dorsalis	X		X	X	
A. d. regularis	X			X	
A. enseticola	X	P		X	
A. equatorealis	X		X	X	
A. fornasini	X		X	X	
A. fulvovittatus	X			X	
A. intermedius *					doubtful ssp. of spinifrons
A. knysnae *			X	X	

A. lacteus			X	X	
A. laevis	X		X	X	
A. leucostictus					
A. morerei *	X	H	X	X	
A. nigeriensis	X	H, P	X	X	
A. orophilus	X	P		X	
A. osorioi	X		X	X	
A. paradorsalis	X		X	X	
A. quadrivittatus	X		X	X	Unsettled taxonomy& nomencl. incl. brevipalmatus
A. schneideri					
A. septentrionalis *	X	H, P	X		
A. spinifrons *			X	X	
A. stuhlmanni *	X		X	X	AS 74,75: A. brachycnemis (part). AS99 A. sp.
A. sylvaticus *	X	H, P	X	X	
A. uluguruensis	X		X	X	
A. upembae	X	P			
A. vibekae	X	H, P	X	X	
A. vittiger	X		X	X	
A. weidholzi	X		X	X	
A. wittei	X		X	X	
<b>Alexteroon jynx</b>					
A. obstetricans			X	X	
A. hypsiphonus			X		voice termed Hyperolius 7 (Amiet)
<b>Arlequinus krebsi</b>				X	
<b>Callixalus pictus</b>					
<b>Chlorolius koehleri</b>				X	
<b>Chrysobatrachus cupreonitens</b>	X	P			
<b>Cryptothylax gresshoffi</b>	X			X	
C. minutus					
<b>Hyperolius acutirostris</b>			X	X	
H. adametzi			X	X	
H. adpersus					
H. alticola	X		X	X	
H. argus	X		X	X	
H. b. balfouri	X			?	
H. b. viridistriatus	X		X	X	
H. atrigularis					
H. baumanni	X		X	X	

H. benguellensis	X		X	X	
H. bobirensis	X	H, P	X	X	
H. bolifambae	X		X	X	
H. bopeleti			X	X	
H. brachiofasciatus	X				
H. cameronensis			X		voice termed H. sp. 6
H. castaneus castaneus	X		X	X	
H. c. constellatus	X	P			ssp. not recognized by Schiøtz. Laurent det.
H. c. submarginatus	X	P			ssp. not recognized by Schiøtz. Laurent det.
H. chlorosteus	X		X	X	
H. chrysogaster	X				
H. cinereus					
H. cinnamomeoventris	X		X	X	
H. c. wittei	X				ssp. not recognized by Schiøtz. Laurent det.
H. concolor concolor	X		X	X	
H. c. ibadanensis	X	H, P	X	X	
H. c. sspp	X		X		
H. cystoscandicans	X	P		X	
H. diaphanus					
H. endjami			X	X	voice termed Hyperolius sp. 3
H. ferrugineus					
H. frontalis	X	P	X	X	
H. fusc. fusciventris	X		X	X	
H. f. lamtoensis	X	H, P	X	X	
H. f. burtoni	X			X	
H. f. ssp.					
H. ghesquieri					
H. guttulatus	X		X	X	
H. horstockii	X		X	X	
H. inornatus					
H. igbettensis	X	H, P	X	X	as H. nasutus or H.n. igbettensis from W.Afr.
H. kachalolae	X	H, P	X	X	
H. kibarae		P			
H. kihangensis	X	H		X	
H. kivuensis	X		X	X	
H. k. bituberculatus	X		X	X	ssp. regarded as doubtful (Schiøtz 1975)
H. kuligae	X		X	X	
H. lamottei	X			X	
H. langi	X		X	X	

H. lateralis	X		X	X	
H. laurenti	X	H, P		X	
H. leleupi					
H. leucotaenius	X	P			
H. l. allogynus	X	P			doubtful ssp. Laurent det.
H. major	X		X	X	
H. minutissimus	X	H, P	X	X	
H. mitchelli	X		X	X	
H. montanus	X		X	X	
H. mosaicus			X	X	
H. nasutus	X		X	X	unsettled taxonomy
H. nienokouensis	X	P		X	
H. nimbae	X		X	X	
H. obscurus					
H. occidentalis	X	H, P	X	X	
H. ocellatus	X		X	X	
H. orkarkarri				X	Doubtful
H. pseudargus	X	H, P	X	X	
H. pardalis	X			X	
H. parkeri	X		X	X	
H. phantasticus	X		X	X	
H. pickersgilli				X	
H. picturatus	X		X	X	
H. pictus	X		X	X	
H. platyceps	X		X	X	
H. p. olbrechtsi	X	P			Doubtful ssp. Laurent det.
H. polli					
H. polystictus					
H. puncticulatus	X		X	X	
H. pusillus	X		X	X	
H. q. quinquevittatus	X		X	X	
H. q. mertensi	X		X		
H. r. riggenbachi	X		X	X	
H. r. hieroglyphicus	X		X	X	
H. robustus	X			X	
H. rubrovermiculatus	X	H, P	X	X	
H. sankuruensis					
H. schoutedeni	X			X	
H. semidiscus			X	X	

H. scheldricki	X	P			
H. spinigularis	X			X	
H. sylvaticus sylvaticus	X	H, P	X	X	
H. s. ivorensis	X	H, P	X	X	
H. s. nigeriensis	X	H, P	X	X	
H. tannerorum	X	H, P		X	
H. torrentis	X	H, P	X	X	
H. tuberculatus	X		X	X	
H. tuberilinguis	X		X	X	
H. vilhenai					
H. viridigulosus	X	H, P	X	X	
H. viridis	X	H, P	X	X	
H. wermuthi	X		X	X	
H. xenorhinus					
H. zonatus	X		X	X	
H. sp. Mabali	X			X	Sensu Schiøtz 2006
<b>Hyperolis viridiflavus group</b>					Arranged geographically, rather than alphabetically. Species structure unsettled and disputed.
spatzi	X				
nitidulus	X		X	X	
pallidus	X				
pachydermus	X				
viridiflavus	X		X	X	
destefanii				X	
variabilis	X		X	X	incl. bayoni
coerulescens	X				
karissimbiensis	X				
pitmanni	X		X	X	
francoisi	X				
hybridus	X				not regarded as distinct by Schiøtz. Laurent det.
intermedius	X	P			--- " ---
kwidjwiensis	X				--- " ---
xanthogrammus	X				--- " ---
bayoni	X				--- " ---
ssp Marsabit	X			X	
pantherinus	X			X	
ferniquei	X		X	X	
rubripes	X				
glandicolor	X		X	X	

ommastostictus	X		X	X	
mwanzae	X	H, P		X	
goetzei	X		X	X	
ngorongoroensis	X	H, P		X	
mariae	X		X	X	
reesi	X	H, P		X	
bitaeniatus	X		X	X	
rhodoscelis	X			X	
nyassae				X	
marmoratus	X				
taeniatus	X			X	
verrucosus				X	
parallelus	X			X	
insignis					
angolensis	X			X	
alborufus	X		X	X	
argentovittis	X		X	X	
epheboides	X	P			
marginatus			X	X	
melanoleucus	X		X	X	
pyrrhodichtyon	X			X	
aposematicus	X		X	X	
rhodesianus	X		X	X	
broadleyi	X			X	
swynnertoni	X			X	
albofasciatus	X			X	
goetzei X mariae	X			X	transition form
argent. X variabilis	X		X	X	probably species hybrid (Schjötz 1971:179)
melan. X pyrrho.	X			X	transition form
broadley X marginatus	X			X	transition form
<b>Kassina</b> arboricola	X	P	X	X	
K. cassinoides	X		X	X	
K. cochraeae	X		X	X	
K. decorata			X		
K. fusca	X	H, P	X	X	
K. kuvangensis	X		X	X	
K. jozani					
K. lamottei	X	H, P	X	X	
K. maculata	X		X	X	

K. maculosa	X		X	X	Part (?) labelled K. decorata (Bangwa)
K. mertensi					
K. maculifer				X	
K. schioetzi					
K. senegalensis	X		X	X	
K. somalica	X		X	X	as K. senegalensis form 2
K. wazae					
<b>Kassinula</b> wittei	X		X	X	
<b>Leptopelis</b> anchiaeta					
L. argenteus	X		X	X	
L. aubryi	X		X	X	
L. barbouri	X		X	X	
L. bequaerti	(X)				doubtful sp. Schiøtz 1967:52
L. bocagii	X		X	X	
L. sp. aff. bocagei	X		X	X	Kakamega, Kenya
L. boulengeri	X		X	X	
L. brevisrostris	X		X	X	
L. broadleyi	X			X	
L. bufonides	X	H, P	X	X	
L. c. calcaratus	X			X	
L. c. meridionalis					
L. christyi	X		X	X	
L. crystallinoron					
L. concolor	X		X	X	
L. cynnamomeus	X		X	X	
L. fenestratus					
L. fiziensis	X			X	
L. flavomaculatus	X		X	X	
L. gramineus	X		X	X	
L. karissimbiensis	X		X	X	
L. kivuensis	X		X	X	
L. lebeau					
L. mackayi	X		X	X	= L. modestus from Kakamega, Kenya
L. macrotis	X	H, P	X	X	
L. millsoni	X		X	X	
L. modestus	X		X	X	
L. mossambicus				X	
L. natalensis			X	X	
L. nordequatorialis			X	X	

L. notatus	X		X	X	
L. occidentalis	X	H, P	X	X	
L. ocellatus ocellatus	X		X	X	
L. o. schoetzi	X	P			
L. omissus	X		X	X	voice termed L. sp. 1
L. oryi	X		X	X	
L. palmatus	X			X	
L. parvocagii	X		X	X	
L. parkeri	X		X	X	
L. parvus					
L. ragazzi			X	X	
L. rufus	X		X	X	
L. spiritusnoctis	X		X	X	= L. "hyloides".
L. susanae				X	
L. uluguruensis	X			X	
L. vannutellii	X		X	X	
L. vermiculatus	X		X	X	
L. viridis	X		X	X	
L. xenodactylus				X	
L. yaldeni	X			X	
L. zebra	X		X		voice termed L. sp.2
<b>Nesionixalus</b> mollerii				X	
N. thomensis				X	
<b>Opisthothylax</b> immaculatus	X			X	
<b>Paracassina</b> kounhiensis			X	X	
P. obscura			X	X	
<b>Phlyctimantis</b> boulengeri	X		X	X	
P. keithae	X		X	X	
P. leonardi	X			X	
P. verrucosus	X		X	X	
<b>Semnodactylus</b> wealii			X	X	As Kassina wealii
<b>Chiromantis</b> kelleri	X				
C. petersii	X		X	X	
C. rufescens	X		X	X	
C. xerampelina	X		X	X	
<b>TOTAL</b>	<b>279</b>	<b>216</b>	<b>163</b>	<b>211</b>	

<b>% of total</b>	<b>77%</b>		<b>58%</b>	<b>76 %</b>	
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