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# Vorläufige Liste und Bibliographie neubeschriebener Amphibienarten und -unterarten von 1993 bis 1997

## Preliminary list and references of newly described amphibian species and subspecies between 1993 and 1997

### Einleitung

Wie in der *elaphe* 5(3) berichtet, ist es das Ziel der 1997 gegründeten AG Systematik, eine Verbindungsstelle zwischen den Mitgliedern der DGHT und der herpetologischen Systematik zu sein. Eine der Aufgaben, die sich die AG gesetzt hat, ist die regelmäßige Veröffentlichung von Informationen über neubeschriebene Amphibien- und Reptilientaxa.

Die hier vorgelegte Liste ist ein Beitrag der AG in diesem Sinne. Sie gibt eine Übersicht über die seit 1993 neu beschriebenen Amphibienarten und -unterarten (Neubeschreibungen von fossilen Formen sind nicht berücksichtigt). Hierbei haben wir versucht, einen direkten Anschluß an die Arbeit von DUELLMAN (1993) herzustellen, in der Neubeschreibungen bis zum 31.12.1992 berücksichtigt werden. Aus diesem Grunde führen wir auch einige Arten auf, die bereits vor 1993 beschrieben, von DUELLMAN (1993) jedoch nicht erfaßt wurden. Dabei handelt es sich um 11 Arten: *Salamandra lanzai*, *Atelopus chocoensis*, *Colostethus betancuri*, *C. furviventris*, *C. yaguara*, *Phrynomedusa bokermanni*, *P. vanzolinii*, *Afraxalus dabagae*, *Eleutherodactylus nahuelbutensis*, *Leptotalax pictus* und *Rana terentievi*. Generell listen wir alle neubeschriebenen Arten und Unterarten auf. Veröffentlichte „nomina nova“ bzw. „replacement names“ sind ebenfalls aufgeführt, aber mit einem Kommentar versehen, der dem Zitat in eckigen Klammern folgt. Wir haben in der Regel keine systematische Bewertung der Neubeschreibungen vorgenommen; lediglich in einigen Fällen, in denen die Validität des neuen Taxons eindeutig anzuzweifeln ist oder bereits in der Literatur angezweifelt wurde, folgt dem Zitat ein entsprechender Kommentar.

Die Einordnung der Arten in Familien folgt im wesentlichen dem aktuellen Kenntnisstand;

im Falle der Ranidae sind die Arten zudem noch nach Unterfamilien sortiert, wobei wir dem Schema von BLOMMERS-SCHLÖSSER (1993) folgen.

Trotz unserer Bemühungen um Vollständigkeit muß die Liste aus verschiedenen Gründen unvollständig bleiben: Die letzten Ergänzungen wurden von uns im Dezember 1997 eingefügt, alle späteren Neubeschreibungen bleiben hier also automatisch unberücksichtigt. Die eine oder andere vorher erschienene Publikation haben wir vermutlich übersehen. Zudem werden viele Neubeschreibungen in schwierig erhältlichen Zeitschriften publiziert. Bei manchen Zeitschriften kommt es regelmäßig zu erheblichen Verzögerungen in der Fertigstellung, so daß viele Arbeiten erst Monate oder gar Jahre nach dem in den Publikationen angegebenen Erscheinungstermin ausgeliefert – und somit verfügbar – werden.

Die Liste umfaßt die Neubeschreibungen von 378 Amphibienarten (348 Froschlurche, 28 Schwanzlurche, 2 Blindwühlen) sowie von 13 neuen Unterarten (8 Froschlurche, 5 Schwanzlurche) und 4 „nomina nova“. Die weitaus meisten Arten (68%) wurden in der neotropischen Region entdeckt. Die geringe Anzahl neubeschriebener Unterarten verdeutlicht, daß die Kategorie der Subspezies von vielen Autoren nicht mehr als geeignet betrachtet wird, um geographische Variation zu beschreiben. Nicht zuletzt ist dies ein Indiz dafür, daß sich das „Evolutionäre Artkonzept“ weiter durchsetzt.

Wir hoffen, mit dieser Liste auch eine Vorstellung zu vermitteln, wieviele Amphibienarten bis heute noch unentdeckt geblieben sind. Zu keiner Zeit wurden mehr Amphibienarten neu entdeckt und beschrieben als in unseren Tagen. Dies läßt sich vor allem mit einer weltweit stark gestiegenen Forschungsintensität erklären, aber auch mit der Anwendung moderner Methoden, wie der Bioakustik bei Froschlurchen. Die mei-

sten neuen Arten werden in den Tropenländern, insbesondere in den tropischen Regenwäldern entdeckt. Angesichts dramatischer Waldzerstörungen werden zahlreiche Arten ausgestorben sein, noch bevor sie entdeckt werden können. Gegenwärtig läßt sich jedoch noch nicht einmal abschätzen, wieviele rezente Amphibienarten tatsächlich unsere Erde bewohnen. Es wird aber immer wahrscheinlicher, daß noch tausende neuer Arten auf ihre Entdeckung und Beschreibung warten.

## Introduction

As reported in *elaphe* 5(3), one aim of the "Systematics Working Group" of the DGHT is to make information on herpetological systematics available to DGHT-members. One of the tasks of the working group is to publish regularly informations on newly described herpetological taxa.

The present list is a contribution to this aim. It provides an overview of living amphibian species and subspecies described since 1993. The list also contains new taxa which have been described before 1993 as far as not considered in DUELLMAN'S (1993) update of FROST (1985), namely the following 11 species: *Salamandra lanzai*, *Atelopus chocoensis*, *Colostethus betancuri*, *C. furviventris*, *C. yaguara*, *Phrynomedusa bokermanni*, *P. vanzolinii*, *Afrixalus dabagae*, *Eleutherodactylus nahuclbutensis*, *Leptolalax pictus*, and *Rana terentievi*.

We list all species group taxa described in the relevant years; „nomina nova“ (replacement names) are followed by a comment [in brackets]. In a few cases in which the validity of a taxon must certainly be questioned, or a respective opinion has already been published, we also inserted a comment [in brackets] after the reference.

Attribution of species to families generally follows recent knowledge. Ranids, additionally, are separated by subfamilies, following the scheme of BLOMMERS-SCHLÖSSER (1993).

Despite our efforts to provide a list as complete as possible, this may not have been achieved. The latest entries were made in December 1997, for this reason all following descriptions are not considered. Some publications may have been overlooked. Moreover, several journals are difficult to access and some of them appear with significant delay.

This account contains references of descriptions of 378 amphibian species (348 Anura, 28 Caudata, 2 Gymnophiona) since 1993, as well as 13 subspecies (8 Anura, 5 Caudata) and 4 replacement names. By far most of the new species have been discovered in the Neotropics

(68%). The low number of newly described subspecies indicates the increasing application of an evolutionary species concept, especially to allopatric populations.

The large and increasing number of descriptions in recent years demonstrates that the biggest burst of amphibian species discoveries is not yet reached (see also GLAW & KÖHLER in press). Undoubtedly, many species are awaiting their discovery in the near future.

## Literatur/References

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## 1. Caudata

### Plethodontidae

*Batrachoseps gabrieli* WAKE, 1996; WAKE, D.B. (1996): A new species of *Batrachoseps* (Amphibia: Plethodontidae) from the San Gabriel mountains, Southern California. – *Contributions in Science* 463: 1-12.

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*Bolitoglossa celaque* McCRANIE & WILSON, 1993; McCRANIE, J.R. & L.D. WILSON (1993): A review of the *Bolitoglossa dunnii* group (Amphibia: Caudata) from Honduras with the description of three new species. – *Herpetologica* 49(1): 1-15.

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*Nototriton sanctibarbarus* McCranie & Wilson, 1996; McCranie, J. R. & L. D. Wilson (1996): A new species of salamander of the genus *Nototriton* (Caudata: Plethodontidae) from Montana de Santa Barbara, Honduras. – *Southwestern Naturalist* **41**(2): 111-115.

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*Thorius smithi* HANKEN & WAKE, 1994; HANKEN, J. & D.B. WAKE (1994): Five new species of minute salamanders, genus *Thorius* (Caudata: Plethodontidae), from northern Oaxaca, Mexico. – *Copeia* 1994: 573-590.

#### Proteidae

*Proteus anguinus parkelj* SKET & ARNTZEN, 1994; SKET, B. & J.W. ARNTZEN (1994): A black, nontrogomorphic amphibian from the karst of Slovenia: *Proteus anguinus parkelj* n. ssp. (Urodela: Proteidae). – *Bijdragen tot de Dierkunde* 64(1): 33-53.

#### Salamandridae

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## 2. Gymnophiona

### Caeciliidae

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*Chthonerpeton arii* CASCON & LIMA-VERDE, 1994; CASCON, P. & J.S. LIMA-VERDE (1994): Uma nova especie de *Chthonerpeton* do nordeste Brasileiro (Amphibia: Gymnophiona: Typhlonectidae). – *Revista Brasileira de Biologia* 54(4): 549-553.

## 3. Anura

### Bufonidae

*Atelopus arsyecue* RUEDA-ALMONACID, 1994; RUEDA-ALMONACID, J.V. (1994): Una nueva especie de *Atelopus* DUMÉRIL & BIBRON, 1841 (Amphibia: Anura: Bufonidae) para la Sierra Nevada de Santa Marta, Colombia. – *Trianea* 5: 101-108.

*Atelopus chocoensis* LÖTTERS, 1992; LÖTTERS, S. (1992): Ein neuer Harlekin-Frosch (Anura: Bufonidae: *Atelopus*) aus dem Chocó, West-Kolumbien. – *Sauria* 14(2): 27-30.

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