

Taxonomic checklist

of the day geckos of the genera ***Phelsuma* GRAY, 1825 and** ***Rhoptropella* HEWITT, 1937** **(Squamata: Gekkonidae)**

compiled by

FRANK GLAW & HERBERT RÖSLER

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Taxonomic checklist of the day geckos of the genera *Phelsuma* GRAY, 1825 and *Rhoptropella* HEWITT, 1937 (Squamata: Gekkonidae)

FRANK GLAW¹ & HERBERT RÖSLER²

¹ Zoologische Staatssammlung München (ZSM-SNSB), Münchhausenstraße 21, 81247 München, Germany; Frank.Glaw@zsm.mwn.de
 — ² Senckenberg Naturhistorische Sammlungen Dresden, Museum für Tierkunde, Sektion Herpetologie, Königsbrücker Landstr. 159, 01109 Dresden, Germany; herbertroesler@aol.com

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Abstract

The day geckos of the genus *Phelsuma* have their center of diversity in Madagascar and the adjacent archipelagos in the western Indian Ocean, especially the Mascarenes, Comoros and Seychelles. Their brilliant colours, diurnal activity, and interesting behaviours have resulted in a long lasting high demand for the pet trade. Accordingly, the international trade of all *Phelsuma* species is regulated by the Convention on International Trade in Endangered Species of Wild Fauna and Floras (CITES) where all species are included in CITES appendix II. In order to facilitate operating and control of these regulations by national and international nature conservation authorities we provide an updated taxonomic checklist for all species and subspecies of the genus *Phelsuma* and for *Rhoptropella ocellata* (a taxon resurrected from the synonymy of *Phelsuma*). Since a few species (especially *P. dubia*, *P. grandis* and *P. laticauda*) have become invasive across different countries and political territories, updated distributional data is also provided. Although a substantial number of the currently accepted taxa is well defined, the taxonomy of several species and subspecies is in need of revision and taxonomic changes are expected in future.

We designate *Phelsuma ornatum* GRAY, 1825 as type species of the genus *Colobopus* FITZINGER, 1843 in order to allow an unambiguous interpretation of this genus name.

Key words

Phelsuma, reptiles, taxonomic checklist, distribution, pet trade, CITES.

Introduction

The genus *Phelsuma* GRAY, 1825 is a group of day geckos with splendid colourations that is mainly distributed on the islands in the western Indian Ocean. According to the number of naturally endemic species, the hotspot of diversity is Madagascar (34 species), followed by the Mascarene Islands (9 species, two of them already extinct), the Comoro archipelago (5 species), and the Seychelles (2 species). Pemba Island (politically belonging to Tanzania) harbours one endemic species and as a biogeographic exception, another endemic species is found on the Andaman Islands in the eastern Indian Ocean. Due to known or presumed active and passive introductions, additional species can be found on some islands in the Western Indian Ocean region and elsewhere in the world as invasive species (see Table 1 for overview).

The day geckos of the genus *Phelsuma* are among the most beautiful and fascinating reptiles. Their brilliant colours, diurnal activity, and interesting behaviours have made them highly attractive both as objects for scientific studies and also of the pet trade. Accordingly they have received enormous attention in the last decades, both from scientists as well as from hobbyists who keep and breed them in vivariums. Thus, an incredible amount of literature on *Phelsuma* has been published in recent years. Several works provide overviews about the genus *Phelsuma* of a certain region, including Madagascar and adjacent islands (HENKEL & SCHMIDT 1995, GLAW & VENCES 2007, SCHÖNECKER 2008), Mayotte and the Union of the Comoros (MEIRTE 1999, 2004, CARRETERO et al. 2005, HAWLITSCHKE et al. 2011), the Mascarenes (VINSON & VINSON 1969, CHEKE & HUME 2008), the Seychelles

(CHEKE 1984), East Africa (SPAWLS et al. 2002), and Hawaii (McKEOWN 1996).

Molecular phylogenies (RADTKEY 1996, AUSTIN et al. 2004, BOUMANS et al. 2007, RAXWORTHY et al. (2007), ROCHA et al. 2007, 2009, 2010, HARMON et al. 2008, GEHRING et al. 2013) have substantially changed our view on *Phelsuma* systematics. DNA barcoding approaches of the species from Madagascar (NAGY et al. 2012) and the Comoros (HAWLITSCHKE et al. 2013) allow to identify the different taxa by a genetical standard marker. Modeling papers help to identify areas of endemism (RAXWORTHY et al. 2007), and to understand the potential distribution of species and the potential impact of invasive species (RÖDDER et al. 2010, BUCKLAND et al. 2014a).

Hobbyists have also contributed substantially to our knowledge of the genus *Phelsuma*. They have published numerous papers on the biology and distribution of *Phelsuma* species, monographic overviews (HALLMANN et al. 1997, 2008), books focusing on their husbandry and breeding (HESELHAUS 1986, McKEOWN 1993, BRUSE et al. 2005, RÖSLER 2005, BERGHOF 2005, 2014, DREWES 2006), and a series of monographic booklets for many individual species: *Phelsuma barbouri* (BERGHOF 2009), *P. dubia* (KRAUSE 2006), *P. guimbeaui* (BUDZINSKI & BUDZINSKI 2009), *P. grandis* (KOBBER 2004), *P. klemmeri* (ANDERS 2006), *P. laticauda* (KRAUSE 2004), *P. lineata* (ANDERS 2008), and *P. quadriocellata* (SCHÖNECKER 2006).

This enormous amount of available literature not only demonstrates the activity of scientists and hobbyists, but also indicates the outstanding interest in this splendid genus.

The following checklist is an update of previous lists, including those of MERTENS (1962), WERMUTH (1965), KLUGE (1991), ZIEGLER & KLEMMER (1993), HALLMANN et al. (1997), RÖSLER (2000), TRAUTMANN (2005), HALLMANN et al. (2008), TRAUTMANN (2012), and DE LISLE et al. (2013), and comprises additions and changes in *Phelsuma* taxonomy, nomenclature and distribution. The list provides a complete synonymy of species-group names of the day-gecko genera *Phelsuma* and *Rhoptropella* published until 31 December 2014, including two extinct species. The format of the checklist largely follows that of FRITZ & HAVAŠ (2007) for the chelonian species of the world: The sequence of nominal taxa (genus, species and subspecies) is alphabetical, except that polytypic species start with the nominotypical subspecies. In addition to nomenclaturally relevant synonyms, we also tried to compile all distinct combinations of generic and species-group names. Synonyms and the reference for the first usage of a new combination are given under the name considered to be valid. In contrast to new species-group names, new combinations of names are separated by a hyphen from the respective authors. Our list also includes many cases of misspellings of scientific names and unjustified emendations (both indicated by “ex errore”). However, due to the enormous amount of contributions we had to omit all these cases from largely “internal” journals including “Terra” (Belgium),

“Phelsuma”, “Phelsumania”, “Xenopus” (Netherlands), “Rundschreiben Interessengruppe Phelsuma” and “Der TagGecko” (IG-Phelsuma, Germany).

The primary aim of this update, which was undertaken on behalf of the Bundesamt für Naturschutz, Bonn, Germany, is to provide a standard reference for *Phelsuma* nomenclature in order to facilitate the operating and control of the CITES regulations by national and international nature conservation authorities, but it might also be helpful as a source for taxonomic research.

The genus *Phelsuma*, IUCN Red List and CITES

Although morphological diversity in the genus *Phelsuma* is relatively limited, the distribution range, abundance and dependence on natural habitats varies greatly between species. Many island taxa are microendemic, and sometimes their distribution range is restricted to only a few square kilometers (e. g. *P. comorensis*, *P. guentheri*, *P. inexpectata*) whereas other species are rather widespread (e. g. *P. dubia*, *P. mutabilis*). Some species seem to be restricted to specific natural habitats (e. g. *P. roesleri*) whereas many others (e. g. *P. dubia*, *P. grandis*, *P. laticauda*, *P. lineata*) are well adapted to anthropogenic habitats where they become often more abundant than in their natural environments.

Recently, the IUCN Redlist status has been assessed for most *Phelsuma* species in the framework of the Global Reptile Assessment, especially for those species distributed in Madagascar and in the Comoro archipelago. Distribution maps for those species are available from the IUCN Red List of Threatened Species database and the results of the assessment of the Malagasy reptiles have been recently summarized by JENKINS et al. (2014). An overview about the Redlist status of each species is given in Table 2.

Regardless of their IUCN Red List status all *Phelsuma* species are listed on the CITES Appendix II. This means that widespread and abundant species classified as Least Concern have the same level of protection by CITES as microendemic species listed as Critically Endangered according to the IUCN Red List Assessment. However, the governance of Madagascar has developed an annual quota system that allows to export a certain amount of usually widespread and abundant reptile and amphibian species for the international pet trade (CARPENTER et al. 2005). In contrast to the colourful frogs of the genus *Mantella* (RABEMANANJARA et al. 2008) and chameleons (CARPENTER et al. 2004, 2005) from Madagascar, comparatively little trade data of *Phelsuma* species have been published and analyzed.

Methods

For compiling the checklist the following internet databases were used in addition to the original literature cited: GBIF Vertebrata database (Deutsches GBIF-Portal, <http://www.biologie.uni-ulm.de/cgi-bin/portal/portal.pl?lang=d&pr=gbif-v1>), IUCN Red List of Threatened Species database (<http://www.iucnredlist.org/search>), the Reptile Database (UETZ & HOŠEK 2014, <http://www.reptile-database.org>), and the VertNet database (successor of HerpNet, <http://www.vertnet.org/>).

Collection acronyms

AMNH	American Museum of Natural History, New York, U.S.A.
BMNH	British Museum (Natural History), now The Natural History Museum, London, United Kingdom
BSRC	Private collection of Achim-Rüdiger Börner, Köln, Germany

JMV	Private collection of Jacqueline Vinson & Jean-Michel Vinson, Mauritius
MCZ	Museum of Comparative Zoology, Cambridge, U.S.A.
MNHN	Muséum national d'Histoire naturelle, Paris, France
MTKD	Museum für Tierkunde, Senckenberg Naturhistorische Sammlungen, Dresden, Germany
NRS	(now NRM or NHRM) Naturhistoriska Riksmuseet, Stockholm, Sweden
RMCA	Royal Museum for Central Africa (RMCA), Tervuren, Belgium
SMF	Senckenberg Museum, Frankfurt a.M., Germany
TM or TMP	Transvaal Museum, Pretoria, South Africa
UMB	Übersee-Museum Bremen, Germany
UMMZ	University of Michigan, Museum of Zoology, Ann Arbor, U.S.A.
USNM	National Museum of Natural History, Smithsonian Institution, Washington D.C., U.S.A.
ZFMK	Zoologisches Forschungsmuseum Alexander Koenig, Bonn, Germany
ZMB	Zoologisches Museum, Berlin, Germany
ZSIC	Zoological Survey of India, Chennai, India
ZSM	Zoologische Staatssammlung München, Germany

Taxonomic checklist

Genus *Phelsuma* GRAY, 1825

- 1825 *Phelsuma* GRAY, Ann. Philos. (2) **10** [= 26]: 199. – Type species (designated by SMITH 1935): “*Phelsuma crepidianus* GRAY” (= *Phelsuma cepediana*).
- 1830 *Anoplopus* WAGLER (non *Anoplopus* RONDANI, 1857 = Diptera), Natürl. Syst. Amph.: 142. – Type species (designated by FITZINGER 1843): *Gekko cepedeanus* (= *Phelsuma cepediana*).
- 1843 *Colobopus* FITZINGER, Syst. Rept. **1**: 99. – Type species: Apparently not yet designated (the genus name was coined to include the species *Anoplopus ornatus* and *A. inunguis*). We here designate *Phelsuma ornatum* GRAY, 1825 (= *Anoplopus ornatus*) as type species of *Colobopus*, since the taxonomic identity of the second included taxon, *Gecko inunguis* OPPEL, 1811 is uncertain (see account below).
- 1851 *Phesulma* – DUMÉRIL & DUMÉRIL (ex errore), Cat. méth. Reptil.: 34.
- 1913 *Phelsumia* – BOETTGER in VOELTZKOW (ex errore; non *Phelsumia* POMEL 1883 = Echinodermata, fide WERMUTH 1965), Reise O-Afr. 1903–1905, **3**. Syst. Arb. (4): 270.
- 1946 *Macrophelsuma* HOFFSTETTER, Bull. Mus. Hist. nat. Paris, (2) **18**, 199. – Type species: *Phelsuma newtoni*. – Synonymy fide VINSON & VINSON 1969.
- 1972 *Archaeophelsuma* BÖRNER, Revision gen. *Phelsuma*: 11. – Type species: *Ph[elsuma]newtonii* (= *Phelsuma edwardnewtonii*). – Coined as a subgenus of *Phelsuma*. – Synonymy with *Phelsuma* fide BÖRNER 1972: 144.
- 1972 *Neophelsuma* BÖRNER, Revision gen. *Phelsuma*: 12. – Type species: *Ph[elsuma]madagascariensis*. – Coined as a subgenus of *Phelsuma*.
- 2000 *Phlesuma* – RAXWORTHY & NUSSBAUM (ex errore), Amph. Rept. Cons., **2** (1): 21.
- 2008 *Phelsumas* – CHEKE & HUME (ex errore), Lost Land Dodo: 68.

Distribution: Madagascar, many adjacent islands in the western Indian Ocean region, eastern Africa, and Andaman Islands. See Table 1 for a detailed overview, including introduced species.

Comment: The nomenclatural availability of the work of BÖRNER (1972) is disputed (e. g. SEIBERT 1975).

***Phelsuma abbotti* STEJNEGER, 1893**

Distribution: Madagascar, Seychelles.

***Phelsuma abbotti abbotti* STEJNEGER, 1893**

- 1893 *Phelsuma abbotti* STEJNEGER, Proc. U.S. Nat. Mus., **16**: 716. – Type locality: “Aldabra Island.” – Holotype: USNM 20467.
 1909 *Phelsuma madagascariense* – BOULENGER (partim), Trans. Linn. Soc., London, **12** (2): 297.
 1911 *Phelsuma madagascariensis* var. *abbotti* – BOULENGER, Trans. Linn. Soc., London, **14** (2): 376, figs. 1–3.
 1939 *Ph[elsuma] abbotti* – RENDAHL, Zool. Jb., Syst., **72** (3/4): 266.
 1942 *Phelsuma madagascariensis abbotti* – LOVERIDGE, Bull. Mus. comp. Zool., **89**: 465.
 1962 *Phelsuma abbotti abbotti* – MERTENS, Senckenb. biol., **43** (2): 84, pl. 7, fig. 1.
 1979 *Phelsuma abbotti* – GRUBER (ex errore), Grzimek’s Tierl.: 167.
 1980 *P[helsuma] a[botti] abbotti* – MEIER (ex errore), Bonn. zool. Beitr., **31** (3/4): 329.
 1986 *P[helsuma] aldabra* THORPE (substitute name for *Phelsuma abbotti abbotti*), J. Zool., **208**: 435.
 2008 *P[helsuma] abbottii* – RAXWORTHY et al. (ex errore), Syst. Biol., **56** (6): 911.

Distribution: Restricted to the Aldabra Atoll, Seychelles (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma madagascariensis* group by ROCHA et al. (2010). Genetically closely related to *P. a. chekei* and *P. a. sumptio* (ROCHA et al. 2009).

***Phelsuma abbotti chekei* BÖRNER & MINUTH, 1984**

- 1984 *Phelsuma chekei* BÖRNER & MINUTH, J. Bombay Nat. Hist. Soc., **81** (2) [1982]: 259, pl. 1. – Type locality: “Vicinity of Diégo Suarez, northern tip of Madagascar”. – Holotype: BSRC Geck 36 MC.
 1984 *Phelsuma beufotakensis* BÖRNER & MINUTH, J. Bombay Nat. Hist. Soc., **81** (2) [1982]: 264, pl. 1. – Type locality: “Befotaka, Northwest Madagascar (s. of Presqu’île Radama, c. halfway between Diégo Suarez and Majunga; not the village on Nosy Bé!)” – Holotype: BSRC Geck 82 SC. – Synonymy fide KRÜGER & TRAUTMANN 1993.
 1993 *Phelsuma beaufotakensis* – MCKEOWN (ex errore), Care Maint. Day Geck.: 59.
 1994 *Phelsuma chekei* – RAXWORTHY & NUSSBAUM (ex errore), Zool. J. Linn. Soc., **112**: 322.
 1996 *Phelsuma abbotti chekei* – MEIER & BÖHME, Salamandra, **32** (2): 91.
 2000 [*Phelsuma*] *abbotti chekei* – RÖSLER (ex errore), Gekkota, **2**: 101.
 2001 *P[helsuma] beufotakensis* – BARTLETT & BARTLETT (ex errore), Day Geck.: 18.
 2005 *P[helsuma] abbotti chekei* – ROGNER (ex errore), Echsen: 139.
 2010 *P[helsuma] abbotti chekei* – GLAW et al., Salamandra, **46** (2): 90.

Distribution: Coastal areas in western, northern and northeastern Madagascar (GLAW & VENCES 2007, HALLMANN et al. 2008).

Comment: DE LISLE et al. (2013) tentatively resurrected *Phelsuma beufotakensis* to species rank without providing evidence. However, the low genetic divergences between *P. abbotti* populations from western and northern Madagascar (ROCHA et al. 2009) do not support its validity at the species level and we here follow KRÜGER & TRAUTMANN (1993) and MEIER & BÖHME (1996) and retain this taxon in the synonymy of *P. a. chekei*.

***Phelsuma abbotti sumptio* CHEKE, 1982**

- 1982 *Phelsuma abbotti sumptio* CHEKE, Senckenb. biol., **62** (4/6) [1981]: 190, fig. 10. – Type locality: “Assumption Island, western Indian Ocean” (Seychelles). – Holotype: SMF 60032 according to original description, but actually SMF 60082.
 1984 *Phelsuma sumptio* – BÖRNER & MINUTH, J. Bombay Nat. Hist. Soc., **81** (2): 276.
 1987 *Phelsuma abbotti sumptio* – GARDNER, Zool. J. Linn. Soc., **91**: 104.
 1990 [*Phelsuma abbotti*] *sumptic* – VERGNER (ex errore), Akvar. Terar., **33** (8): 28.
 1995 *Phelsuma abbotti sumptio* – HENKEL & SCHMIDT (ex errore), Amph. Rept. Madagas. Maskar. Seych. Komor.: 190; fig. p. 190.
 1995 [*Phelsuma abbotti*] *sumtio* – HENKEL & SCHMIDT (ex errore), Amph. Rept. Madagas. Maskar. Seych. Komor.: 309.
 2000 [*Phelsuma*] *abbotti sumptio* – RÖSLER, Gekkota, **2**: 101.

Distribution: Restricted to Assumption Island, Seychelles, approximately 40 km south of the Aldabra Atoll (HALLMANN et al. 2008).

***Phelsuma andamanensis* BLYTH, 1861**

- 1861 *Phelsuma andamanense* BLYTH, J. Asiat. Soc. Bengal., **29** [1860]: 108. – Type locality: Andaman Islands. – Holotype: ZSIC 6177 (DE LISLE et al. 2013).
- 1865 *Gecko chameleon* TYTLER (substitute name for *Phelsuma andamanensis*), J. Asiat. Soc. Bengal, **33** [1864]: 548.
- 1942 *Phelsuma madagascariensis andamanensis* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 467.
- 1962 *Phelsuma andamanensis* – MERTENS, Senckenb. biol., **43** (2): 88.
- 1965 *Gecko chamaeleon* WERMUTH (substitute name for *Phelsuma andamanensis*), Das Tierreich, **80**: 126.
- 1994 [*Phelsuma*] *andamensis* – HESELHAUS (ex errore), Taggeckos Phels.: 7.
- 1994 *Phelsuma adamanensis* – ZAWORSKI (ex errore), Dactylus, **2** (3): 119.
- 2001 [*Phelsuma*] *andamanense* – KLUGE, Hamadryad, **26** (1): 22.

Distribution: Andaman Islands (HALLMANN et al. 2008).

Comment: Since several decades, the gender of the genus *Phelsuma* was treated as feminine and accordingly the species name “*andamanensis*” was in prevailing usage until KLUGE (2001) erroneously re-introduced the original neuter form “*andamanense*” for this species without justification. Placed in the *Phelsuma andamanensis* group by ROCHA et al. (2010).

***Phelsuma antanosy* RAXWORTHY & NUSSBAUM, 1993**

- 1993 *Phelsuma antanosy* RAXWORTHY & NUSSBAUM, Herpetologica, **49** (3): 345, fig. 1. – Type locality: “Petriky, 25°05’ S, 46°49’ E, 50 m altitude, Tôlanaro (Fort Dauphin) Fivondronana, Toliara (Tulear) Province, Madagascar.” – Holotype: UMMZ 196214 (RAN 34788).

Distribution: Restricted to a small area in southeastern Madagascar (RAXWORTHY & NUSSBAUM 1993).

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010).

***Phelsuma astriata* TORNIER, 1901**

Distribution: Seychelles.

***Phelsuma astriata astriata* TORNIER, 1901**

- 1901 *Phelsuma lineata* var. *astriata* TORNIER, Zool. Anz., **24**: 64. – Type locality: “Mahé (Seychellen)” – Lectotype: ZMB 16842 (designated by BAUER & GÜNTHER 1991: 295).
- 1939 *Phelsuma carinatum* RENDAHL, Zool. Jb. Syst., **72**: 277. – Type locality: – “Seychellen, Praslin Island.” (doubted by CHEKE 1982: 192). – Syntypes: 7 specimens (NRS No. 3996). – Synonymy fide LOVERIDGE 1942.
- 1939 *Phelsuma carinatum maheense* RENDAHL, Zool. Jb. Syst., **72**: 278. – Type locality: “Seychellen, Mahé Island, Port Victoria, Bel Air.” – Syntypes: NRS 4012 (3 specimens) and NRS 4013 (3 specimens). – Synonymy fide LOVERIDGE 1942.
- 1942 *Phelsuma astriata* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 455.
- 1948 *Phelsuma astovei* FITZSIMONS, Spec. Publ. Roy. South Africa, Robert Broom Commem. Vol., Cape Town: 235. – Type locality: Astove Island, Seychelles. – Holotype: TMP 21714. – Synonymy fide GARDNER 1984.
- 1962 *Phelsuma astriata astriata* – MERTENS, Senckenb. biol., **43** (2): 88.
- 1962 *Phelsuma astriata astovei* – MERTENS, Senckenb. biol., **43** (2): 89.
- 1980 *Phelsuma carinata* – EVANS & EVANS, J. Zool., **191**: 172.
- 1984 *Phelsuma astriata astriata* – GARDNER, Ph. D. Thesis, Aberdeen, 284.

Distribution: Restricted to several islands (Mahé, Silhouette, Thérèse, Astove and possibly Frégate) of the Seychelles (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma astriata* group by ROCHA et al. (2010). The synonymy of *Phelsuma carinatum* RENDAHL, 1939 is in need of revision (see comment under *P. astriata semicarinata*).

***Phelsuma astriata semicarinata* CHEKE, 1982**

- 1982 *Phelsuma astriata semicarinata* CHEKE, Senckenb. biol., **62** (4/6) [1981]: 192, fig. 7. – Type locality: “Anse Kerlan, Praslin Island, Seychelles” – Holotype: BMNH 1976.1884.
1984 *P[helsuma] a[striata] semi-carinata* – CHEKE in STODDART (ex errore), Liz. Seych. (19): 343.
1987 *P[helsuma] astriata carinata* – OSADNIK (ex errore?), Thesis, Univ. Bochum: 225.
1994 *Phelsuma astrotia semicarinata* – WELCH (ex errore), Liz. World, **1**. Geck.: 99.
2005 *P[helsuma] striata semicarinata* – ROGNER (ex errore), Echsen: 139.
2008 *Phelsuma astriata semicarinata* – HALLMANN et al., Faszin. Taggeckos, 2nd ed.: 84; fig. 61.

Distribution: Seychelles Islands of Praslin, La Digue, Felicité, Petite Soeur, Grande Soeur, Marianne, Curieuse, Cousin, Cousine, Aride, Denis, Daros, and St. Joseph (HALLMANN et al. 2008). Introduced to La Réunion Island (MOZZI et al. 2005).

Comment: When CHEKE (1982) described *P. a. semicarinata* from Praslin Island he was aware of the earlier name *P. carinatum* RENDAHL, 1939, but doubted its type locality “Praslin” based on collection dates. However, CHEKE (1982) provided only indirect evidence for his assumption suggesting that “*semicarinata*” might be a junior synonym of “*carinata*”.

***Phelsuma barbouri* LOVERIDGE, 1942**

- 1942 *Phelsuma barbouri* LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 458. – Type locality: “forest between Tamatave and Tananarivo, eastern Madagascar.” – Holotype: MCZ R-11640.
1986 *Phelsuma (Rhoptropella) barbouri* – MUDDE, Inst. Taxonom. Zool.: **23**; fig. 67.
1988 *P[helsuma] barbouri* – ANANJEVA et al. in SOKOLOV, Diction. Anim., Amph. Rept.: 196.

Distribution: Central Madagascar between Antananarivo and the Andringitra massif (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma barbouri* group by ROCHA et al. (2010).

***Phelsuma berghofi* KRÜGER, 1996**

- 1996 *Phelsuma berghofi* KRÜGER, Herpetofauna, **18** (105): 15. – Type locality: “Somisiky, Süd-Ost-Madagaskar (23°23'S, 47°32'O), 56 m ü. NN.” – Holotype: ZFMK 62991.

Distribution: Known from a small area in southeastern Madagascar (GLAW & VENCES 2007, GEHRING et al. 2010a).

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010).

***Phelsuma borai* GLAW, KÖHLER & VENCES, 2009**

- 2009 *Phelsuma borai* GLAW et al., Zootaxa, **2195**: 62, figs. 1–2. – Type locality: “Andafiabe, Beboka River, 18°47'03” S, 44°46'46” E, 177 m above sea level, Tsingy de Bemaraha National Park, western Madagascar.” – Holotype: ZSM 103/2006.

Distribution: Reliably known from the type locality in the Bemaraha massif only, but likely to occur also at Ankarafantsika further north based on photographic records (see MORI et al. 2006).

Comment: Placed in the *Phelsuma mutabilis* group by ROCHA et al. (2010).

***Phelsuma borbonica* MERTENS, 1966**

Distribution: Mascarene Islands: La Réunion Island (French oversea territory), Agalega Island (Mauritius).

***Phelsuma borbonica borbonica* MERTENS, 1966**

- 1966 *Phelsuma cepediana borbonica* MERTENS, Senckenb. biol., **47** (2): 97, fig. 1. – Type locality: “Le Brûle, 800 m, N-Réunion” – Holotype: SMF 60210.
1981 *Phelsuma borbonica borbonica* – CHEKE, Senckenb. biol., **62** (1/3): 1.
1994 *Phelsuma barbonica borbonica* – HESELHAUS (ex errore), Taggeckos Phels.: 52.

- 1996 *P[helsuma] b[orbonica] barbonica* – ANONYMOUS (ex errore), *Elaphe*, **4** (1): 59.
 1997 *Phelsuma borbonica borbonica* – HALLMANN et al., *Faszin. Taggeckos*: 12.

Distribution: Apparently restricted to higher altitudes (above 400 m) in the north of La Réunion (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010).

***Phelsuma borbonica agalegae* CHEKE, 1975**

- 1975 *Phelsuma agalegae* CHEKE, *Mauritius Inst. Bull.*, **8**: 33–48. – Type locality: Agalega Island (Mauritius) – The female holotype got lost in the registered post between Mauritius and Frankfurt in early 1975 (CHEKE 1982a). Neotype (designated by CHEKE 1982a): BMNH 1975-418 (original number of A. CHEKE 211074/1/Ph).
 1982 *Phelsuma borbonica agalegae* – CHEKE, *Senckenb. biol.*, **62** (1/3): 1.
 2004 *Phelsuma agelegae* – AUSTIN et al. (ex errore), *Mol. Phylogenet. Evol.*, **31**: 111.
 2008 *P[helsuma] borbonica agalegae* – HALLMANN et al., *Faszin. Taggeckos*, 2nd ed.: 32.

Distribution: Restricted to the two Agalega Islands (politically belonging to Mauritius), possibly introduced rather recently from La Réunion Island (CHEKE 1975).

Comment: Due to the assumed introduced origin on the Agalega islands, the taxonomy of this subspecies is in need of revision.

***Phelsuma borbonica mater* MEIER, 1995**

- 1995 *Phelsuma borbonica (agalegae) mater* MEIER, *Salamandra*, **31** (1): 35, figs. 4–5. – Type locality: “Réunion: Basse Vallée” – Holotype: ZFMK 57901.
 2008 *Phelsuma borbonica mater* – HARMON et al., *Syst. Biol.*, **57** (4): 569.

Distribution: Apparently east and south of the Mascarene island of La Réunion (according to the map in HALLMANN et al. 2008), but restricted to the type locality according to the text in HALLMANN et al. (2008).

Comment: The taxonomy and differentiation of this subspecies apparently is in need of revision.

***Phelsuma breviceps* BOETTGER, 1894**

- 1894 *Phelsuma breviceps* BOETTGER, *Zool. Anz.*, **17** (445): 137. – Type locality: “Südspitze von Madagaskar”. – Holotype: SMF 9465 (formerly 4214, 2a, see MERTENS 1967).
 1913 *Phelsumia breviceps* – BOETTGER in VOELTZKOW (ex errore), *Reise O-Afr. 1903–1905*, 3. *Syst. Arb.* (4): 292.
 1972 *Phelsuma mutabilis breviceps* – BÖRNER, *Revision gen. Phelsuma*, **1**: 96.
 1986 *Phelsuma (Rhoptropella) breviceps* – MUDDE, *Inst. Taxonom. Zool.*: **23**; figs. 14, 59.
 1991 [*Phelsuma mutabilis*] *breviceps* – KLUGE, *Smithonian. Info. Serv.*, **85**: 25.
 1993 [*Phelsuma*] *breviceps* – KLUGE, *Gekk. Liz. Taxon.*: 26.

Distribution: Coastal areas of south and southwest Madagascar (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma mutabilis* group by ROCHA et al. (2010). MEIER (1993) restricted the type locality to “Landstreifen zwischen dem Lac Tsimanompetsotsa und dem Indischen Ozean” [Madagascar], but since this area is in the Southwest and does not correspond to the original type locality (south tip of Madagascar) we consider this action as invalid.

***Phelsuma cepediana* (MILBERT, 1812)**

- 1812 *Gecko cepedianus* MILBERT, *Voyage l’île-de-France*, **2**: 261. – Type locality: Insula Franciae (Mauritius). – Lectotype: MNHN 6664 (designated by BRYGOO 1990), thereby making the lectotype designation by PASTEUR & BOUR (1994) invalid, see discussion in BAUER & WAGNER (2012).
 1812 *Gecko francicus* MILBERT, *Voyage l’île-de-France*, **2**: 262. – Type locality: “l’Isle-de-France” (Mauritius). Holotype: not found. – Synonymy fide KLUGE 2001.
 1820 *Gekko cepedianus* – MERREM, *Tent. Syst. Amph.*: 43.

- 1825 *P[helsuma] crepidianus* – GRAY (ex errore), Ann. Philos. (2) **10**: 199.
 1826 *P[latydactylus] cepedeanus* – FITZINGER (ex errore), Neue Class. Rept.: 47.
 1827 *Gecko [Phelsuma] cepedianus* – GRAY (ex errore), Philos. Mag., **2**: 56.
 1830 *Anoplopus cepedeanus* – WAGLER (ex errore), Nat. Syst. Amph.: 142.
 1831 *P[helsuma] cepedia* – GRAY in KING (ex errore), Narrat. Surv. Intert. West. Coast Austr., **2**. Rept.: 428.
 1831 *Cepedian Gecko* (sic) – GRIFFITH & PIDGEON in GRIFFITH, Anim. Kingd. Cuvier, **9**: 142; pl. 5, fig. 5.
 1833 *Platydyactylus cepedianus* – GEOFFROY SAINT-HILAIRE, Guerin's Mag. Zool., Cl. 3, pl. 3.
 1833 *Lomatodactylus (Platydyactylus) cepedianus* – VAN DER HOEVEN, Handb. Dierk., **2**: 342.
 1842 *Phelsuma trilineatum* GRAY, Zool. Misc. London, Pt. IV: 57. – Type locality: No locality data given in original description. BOULENGER (1885) gave the locality of the holotype as “Madagascar” although the source of this information is unknown and apparently there appears to be no supportive evidence (MERTENS 1962, RAXWORTHY & NUSSBAUM 1993). – Holotype: BMNH 1946.8.26.32. – Synonymy fide RAXWORTHY & NUSSBAUM 1993.
 1843 *Anoplopus (Anoplopus) cepedeanus* – FITZINGER (ex errore), Syst. Rept., **1**: 99.
 1845 *Phelsuma cepedianus* – GRAY, Cat. Lizards Brit. Mus.: 166.
 1856 *Plat[ydactylus] cépedien* (sic) – DUMÉRIL, Arch. Mus. Hist. nat. Paris, **8**: 449.
 1860 *Ph[elsuma] cepedianum* – BLYTH, J. Asiat. Soc. Bengal, **29**: 108.
 1885 *Phelsuma cepedianum* – BOULENGER, Cat. Lizards Brit. Mus., ed. 2, **1**: 211.
 1913 *Phelsumia cepediana* – BOETTGER in VOELTZKOW (ex errore), Reise O-Afr. 1903–1905, 3. Syst. Arb. (4): 370.
 1942 *Phelsuma inunguis* LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 448. – Synonymy fide LOVERIDGE 1947.
 1947 *Phelsuma cepediana* – LOVERIDGE, Bull. Mus. Comp. Zool., **98**: 352.
 1966 *Phelsuma cepediana cepediana* – MERTENS, Senckenb. biol., **47** (2): 96.
 1975 *Phelsuma inunguis* – BERNHOLZ (ex errore), Vision Res., **15**: 733.
 1981 *Phelsuma cepediana* – CHEKE, Senckenb. biol., **62** (1/3): 1.

Distribution: Mauritius. An introduced population on Rodriguez Island is in need of confirmation (HALLMANN et al. 2008) and no recent records indicate the continued existence of the species on Madagascar.

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010). AUSTIN et al. (2004) recognized three different genetic lineages in *P. cepediana*, suggesting that its taxonomy needs further studies.

***Phelsuma comorensis* (BOETTGER, 1913)**

- 1913 *Phelsumia laticauda* var. *comorensis* BOETTGER in VOELTZKOW (ex errore), Reise Ostafrika, **3**: 336. – Type locality: “La Grille aus etwa 1000 m Höhe” (Grand Comoro Island). – Syntypes: 23 specimens. Lectotype: SMF 9549 (formerly SMF 4215.1a) (designated by MERTENS 1967).
 1942 *Phelsuma dubia comorensis* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 463.
 1966 *Phelsuma comorensis* – MERTENS, Senckenb. biol., **47** (2): 100.
 2006 *Phelsuma dubia comorensis* – KRAUSE (ex errore), Palmen-Taggeckos: 9.
 2009 *Phelsuma comorensis* – SAVEY (ex errore), Thesis, École Nationale Veterinaire d'Alfort: 138; fig. p. 153.
 2013 *Phelsuma comorensis* – DE LISLE et al., Gekk. cat. rec. spec.: 193.

Distribution: Restricted to the north of the island Grand Comoro (Comoro archipelago), with an erratic individual also observed near the capital Moroni (HAWLITSCHKE et al. 2011).

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010).

***Phelsuma dorsivittata* MERTENS, 1964**

- 1964 *Phelsuma lineata dorsivittata* MERTENS, Senckenb. biol., **45** (2): 106, fig. 3. – Type locality: “Joffreville, etwa 25 km südlich von Diego Suarez, N-Madagaskar.” – Holotype: SMF 59373.
 1980 [*Phelsuma*] [*lineata*] *dorsevittata* – RÖSLER (ex errore), Elaphe, **1980** (2): 19.
 1982 *Phelsuma lineata dorsovittata* – WELCH (ex errore), Herpetol. Afr., Checkl.: 17.
 2010 *Phelsuma dorsivittata* – ROCHA et al., Zootaxa, **2429**: 21, fig. 9.

Distribution: Northern Madagascar (GEHRING et al. 2013).

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010). The taxonomy of this species is in need of revision (GEHRING et al. 2013).

***Phelsuma dubia* (BOETTGER, 1881)**

- 1881 *Pachydactylus dubius* BOETTGER, Zool. Anz., 4: 46. – Type locality: “Insula Madagascar” according to the original description, but subsequently given more precisely as “Nossi-Bé” (BOETTGER 1882: 178). – Holotype: Überseemuseum Bremen (“Real-Katalog”) No. 954 (GLAW et al. 1999).
- 1882 *Pachydactylus dubius* – BOETTGER, Abh. naturwiss. Ver. Bremen, 7: 179.
- 1883 *Phelsuma dubium* – BOETTGER, Kat. Rept. Mus. Senckenb., 38.
- 1913 *Phelsumia dubia* – BOETTGER in VOELTZKOW (ex errore), Reise O-Afr. 1903–1905, 3. Syst. Arb. (4): 292; pl. 20, figs. 7–10.
- 1942 *Phelsuma dubia dubia* – LOVERIDGE, Bull. Mus. Comp. Zool., 89: 461.
- 1966 *Phelsuma dubia* – MERTENS, Senckenb. biol., 47 (2): 101.
- 2008 *Phelsum dubia* – NIEWIAROWSKI et al. (ex errore), PLoS ONE, 3 (5): 1.
- 2009 *Phesulma dubia* – SAVEY (ex errore), Thesis, École Nationale Veterinaire d’Alfort: 138; fig. p. 154.
- 2013 *Phelsuma dubia* – DE LISLE et al., Gekk. cat. rec. spec.: 194.

Distribution: Western and northern Madagascar. Presumably introduced in the four major Comoro islands, Sanzibar Island, Mozambique Island (Mozambique), and small coastal areas of Tanzania and Kenya (SPAWLS et al. 2002, ROCHA et al. 2007, HAWLITSCHKE et al. 2011). Recently, a single specimen was recorded in Florida (KRYSKO et al. 2011). Records from the east coast of Madagascar were partly attributed to *P. ravenala* and are in need of confirmation.

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010). The species has been described in BOETTGER (1881) and once again with more details in BOETTGER (1882). In a later publication, BOETTGER (1893: VII) considered two specimens from the Senckenberg collection (Nr. 4314, 1b = SMF 9458–9459) from western Madagascar as types. MERTENS (1922) considered these specimens as neotypes and later designated SMF 9458 from Majunga (=Mahajanga) as “Lectoneotypus” (MERTENS 1962: 93). However, after recognizing that *P. dubia* does occur on Nosy Be Island he considered the designation of neotypes by BOETTGER (1893) as invalid (MERTENS 1973a). With the rediscovery of the holotype the subsequently claimed neotypes and the “Lectoneotypus” designation by MERTENS (1962) have become invalid (GLAW et al. 1999).

***Phelsuma edwardnewtonii* VINSON & VINSON, 1969**

- 1842 *Gecko à gorge jaune* – LIÉNARD, 13^{ème}. Rapp. Ann. Soc. Hist. Nat. Maurice, 56.
- 1884 *Phelsuma newtoni* BOULENGER, Proc. Zool. Soc. London, 1884: 2. Type locality: Rodriguez [east of Mauritius]. – Holotype: BMNH 1946.8.13.44 (= BM 79.6.4.20) according to VINSON & VINSON (1969).
- 1885 *Phelsuma newtonii* – BOULENGER, Cat. Lizards Brit. Mus., ed. 2, 1: 212.
- 1962 *Phelsuma newtoni* – MERTENS, Senckenb. biol., 43 (2): 110.
- 1969 *Phelsuma edwardnewtonii* VINSON & VINSON, Mauritius Inst. Bull., 6 (4): 295, Pl. IV, fig. 11 (1).
- 1972 *Phelsuma (Archaeophelsuma) newtonii* – BÖRNER, Revision gen. Phelsuma: 11.
- 2008 *Phelsuma edwardnewtoni* – HALLMANN et al., Fasz. Taggeckos, 2nd ed.: 109.

Distribution: Extinct (last record in 1917), formerly distributed on the Mascarene Island of Rodriguez and adjacent islets (VINSON & VINSON 1969, HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010). The replacement name *P. edwardnewtonii* was necessary to remove the homonymy with *Gecko newtonii* GÜNTHER (see VINSON & VINSON 1969).

***Phelsuma flavigularis* MERTENS, 1962**

- 1962 *Phelsuma flavigularis* MERTENS, Senckenb. biol., 43 (2): 94, pl. 8, figs. 4, 5. – Type locality: “Perinet, O-Madagaskar.” – Holotype: SMF 57479.
- 1972 *Phelsuma flavigularis flavigularis* – BÖRNER, Revision gen. Phelsuma: 70.
- 1982 *Phelsuma flavigularis* – WELCH, Herpetol. Afr., Checkl.: 17.

Distribution: Reliably known only from the region of the type locality Andasibe in eastern Madagascar (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010).

***Phelsuma gigas* (LIÉNARD, 1842)**

- 1842 *Gecko gigas* LIÉNARD, 13^{eme} Rapp. Ann. Soc. Hist. Nat. Maurice, 55. – Type locality: Rodriguez, Ile aux Frégates [east of Mauritius] fide VINSON & VINSON (1969). – Type: Not preserved fide VINSON & VINSON (1969).
- 1877 *Gecko newtonii* GÜNTHER, Jour. Linn. Soc. London, **13**: 325. – Type locality: Rodriguez (east of Mauritius). – Lectotype: BMNH (number not traced), parietal bone illustrated in the type description (designated by VINSON & VINSON 1969). – Synonymy fide VINSON & VINSON 1969.
- 1891 *Gecko Newtonio* – OLIVER (ex errore), Voyage F. Leguat, **2**: 402.
- 1946 *Macrophelsuma newtoni* – HOFFSTETTER, Bull. Mus. Hist. Nat. Paris, Ser. 2, **18** (2): 199. – Synonymy fide VINSON & VINSON 1969.
- 1969 *Phelsuma gigas* – VINSON & VINSON, Mauritius Inst. Bull., **6** (4): 300.

Distribution: Extinct, formerly distributed on the Mascarene Island of Rodriguez and the adjacent Ile aux Frégates (VINSON & VINSON 1969).

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010).

***Phelsuma gouldi* CROTTINI, GEHRING, GLAW, HARRIS, LIMA & VENCES, 2011**

- 2011 *Phelsuma gouldi* CROTTINI et al., Zootaxa, **2982**: 42. – Type locality: “Anja Reserve, 13 km south of Ambalavao 21°51'2.64” S, 46°50'33.80” E, 949 m a.s.l., Haute Matsiatra Region, Fianarantsoa province, southern central Madagascar.” – Holotype: ZSM 804/2010 (ZCMV 13056).

Distribution: Reliably known only from the region of the type locality (Anja reserve) in south-central Madagascar (CROTTINI et al. 2011).

Comment: Placed in the *Phelsuma mutabilis* group by CROTTINI et al. (2011).

***Phelsuma grandis* GRAY, 1870**

- 1870 *Phelsuma grandis* GRAY, Ann. Mag. Nat. Hist., **6**: 191. – Type locality: “Madagascar” – Holotype: BMNH 1946.8.26.33 (fide DE LISLE et al. 2013).
- 1878 *Pachydactylus grandis* – BOETTGER, Abh. senckenberg. naturf. Ges., **11**: 37.
- 1880 *Pachydactylus cepedianus* var. *madagascariensis* BOETTGER, Abh. Senckenberg. Naturf. Ges., **12**: 458.
- 1942 *Phelsuma madagascariensis madagascariensis* – LOVERIDGE (partim), Bull. Mus. comp. Zool., **89**: 470.
- 1964 *Phelsuma madagascariensis venusta* MERTENS, Senckenb. biol., **45** (2): 110, fig. 5. – Type locality: “25 km südlich von Diego Suarez, N-Madagaskar”. – Holotype: SMF 58897. – Synonymy fide MERTENS 1970.
- 1970 *Phelsuma madagascariensis notissima* MERTENS, Senckenb. biol., **51** (1/2): 9, fig. 7. – Type locality: “Nossi Bé bei NW Madagaskar.” – Holotype: SMF 62462. – Synonymy fide MEIER 1982.
- 1970 *Phelsuma madagascariensis grandis* – MERTENS, Senckenb. biol., **51** (1/2): 5, figs. 5, 6.
- 1981 *Phelsuma madagascariensis grandes* – DENZER (ex errore), Sauria, **3** (1): 23; fig. p. 25.
- 1998 *P[helsuma] madagascariensis grandis* – ANONYMOUS (ex errore), Elaphe, **6** (2): 68.
- 2004 *Phelsuma madagascariensis grandis* – FALK (ex errore), Grundk. Terrar., 2nd ed.: 45.
- 2007 *Phelsuma grandis* – RAXWORTHY et al., Syst. Biol., **56** (6): 917, fig. 5c.
- 2009 *Phelsuma madagascariensis grandis* – SAVEY (ex errore), Thesis, École Nationale Veterinaire d'Alfort: 138; fig. p. 153.
- 2013 *Phelsuma grandis* – DE LISLE et al., Gekk. cat. rec. spec.: 194.

Distribution: Coastal areas of northern Madagascar (HALLMANN et al. 2008). Introduced to several localities including La Réunion Island, Hawaii, Florida, and Mauritius during the 1990s (KRYSKO et al. 2003, CHEKE & HUME 2008, CHEKE 2010, DUBOS 2013, BUCKLAND et al. 2014a, SANCHEZ & PROBST 2014). The record from Afghanistan in the IUCN Redlist assessment is most likely erroneous and probably based on a coding mistake (P. BOWLES, in litt. 10. Nov. 2014).

Comment: Placed in the *Phelsuma madagascariensis* group by ROCHA et al. (2010).

***Phelsuma guentheri* BOULENGER, 1885**

- 1885 *Phelsuma guentheri* BOULENGER, Cat. Lizards Brit. Mus., ed. 2, **1**: 213. – Type locality: “Round Island, near Mauritius”. – Holotype: BMNH 1946.9.8.51 (= BM 84.3.7.1) according to VINSON & VINSON (1969).

- 1946 *Macrophelsuma guentheri* HOFFSTETTER, Bull. Mus. Nation. Hist. Nat. Fr., Sér. 2, (2) **18**: 201; fig. 5.
 1971 *Phelsuma güentheri* – BLANC (ex errore), Ann. Fac. Sci. Uni. Madagascar, **8**: 116.
 1971 *Phelsuma güntheri* – BLANC (ex errore), Ann. Fac. Sci. Uni. Madagascar, **8**: 154.
 2013 *Phelsuma guntheri* – BAUER (ex errore), Geck.: Anim. Answ. Guide: 157.
 2013 *Phelsuma guentheri* – DE LISLE et al., Gekk. cat. rec. spec.: 195.

Distribution: Restricted to Round Island, north of Mauritius (HALLMANN et al. 2008). Recently re-introduced on the island Ile aux Aigrettes.

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010).

***Phelsuma guimbeui* MERTENS, 1963**

- 1963 *Phelsuma guimbeui* MERTENS, Mauritius Inst. Bull., **5** (7): 301, pl. 8, fig. 3. – Type locality: “Pailles, about 5 km S. W. of Port Louis” (Mauritius). – Holotype: SMF 59236.
 1969 *Phelsuma guimbeui guimbeui* – VINSON & VINSON, Mauritius Inst. Bull., **6** (4): 280, figs. 11 (1), 13 (3).
 2003 *P[helsuma] gimbeui* – CHRISTENSON & CHRISTENSON (ex errore), Day Geck. Capt.: 66.
 2004 *Phelsuma guimbeui* – AUSTIN et al., Mol. Phylogenet. Evol., **31**: 118.

Distribution: Western parts of Mauritius (HALLMANN et al. 2008, BUCKLAND et al. 2014b, 2014c). Introduced in Hawaii (McKEOWN 1996).

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010).

***Phelsuma guttata* KAUDERN, 1922**

- 1922 *Phelsuma guttata* KAUDERN, Zool. Jb. Syst., **45**: 418, pl. 12, fig. 1 – la. – Type locality: “Fandrarezana” (eastern Madagascar). – Holotype: One female specimen, NHRM 3182 (DE LISLE et al. 2013).
 1939 *Phelsuma guttatum* – RENDAHL, Zool. Jb. Syst., **72**: 268.
 1942 *Phelsuma guttata* – LOVERIDGE, Bull. Mus. comp. Zool., **89**: 474.

Distribution: Coastal areas of east and northeast Madagascar, northward to the Daraina region (RAKOTONDRAVONY 2006).

Comment: Placed in the *Phelsuma madagascariensis* group by ROCHA et al. (2010).

***Phelsuma hielscheri* RÖSLER, OBST & SEIPP, 2001**

- 2001 *Phelsuma hielscheri* RÖSLER et al., Zool. Abh. Staatl. Mus. Tierk., Dresden, **51** (6): 52, figs. 1–3. – Type locality: “zirka 15 km südwestlich von Morondava, Westküste von Madagaskar.” – Holotype: MTKD D34210.

Distribution: Western and southwestern Madagascar (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010).

***Phelsuma hoeschi* BERGHOF & TRAUTMANN, 2009**

- 2009 *Phelsuma hoeschi* BERGHOF & TRAUTMANN, Sauria, **31** (1): 6, figs. 1–8, 11. – Type locality: “einige Kilometer südlich Ampasimanolotra, Ostküste Madagaskars, auf Meereshöhe”. – Holotype: ZSM 1895/2008.

Distribution: Eastern Madagascar (BERGHOF & TRAUTMANN 2009, GEHRING et al. 2010a).

Comment: Placed with uncertainty in the *Phelsuma lineata* group by ROCHA et al. (2010). The taxonomy of this species is in need of revision (GEHRING et al. 2013).

***Phelsuma inexpectata* MERTENS, 1966**

- 1966 *Phelsuma vinsoni inexpectata* MERTENS, Senckenb. biol., **47** (2): 106, fig. 2. – Type locality: “Manapany-les-Bains, S-Réunion” – Holotype: SMF 60208.

- 1970 *Phelsuma ornata inexpectata* – MERTENS, Senckenb. biol., **51** (1/2): 12.
1981 *Phelsuma ornata inexpectata* – OOSTVEEN (ex errore), Phels.: 81.
1995 *Phelsuma inexpectata* – BOUR et al., Dumerilia, **2**: 100.

Distribution: Restricted to a small area in the south of La Réunion (BOUR et al. 1995) where the invasive species *P. grandis* was recently detected (DUBOS 2013).

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010). Closely related to *P. ornata* (AUSTIN et al. 2004).

***Phelsuma kely* SCHÖNECKER, BACH & GLAW, 2004**

- 2004 *Phelsuma kely* SCHÖNECKER et al., Salamandra, **40** (2): 106. – Type locality: “Lac Ampitabe (18°36'S, 49°15'O, 10 m ü.NN) bei Andranokoditra, etwa 65 km südlich von Toamasina (= Tamatave), Ost-Madagaskar.” – Holotype: ZSM 607/2003.

Distribution: Known from a small coastal area in eastern Madagascar (SCHÖNECKER 2008).

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010).

***Phelsuma klemmeri* SEIPP, 1991**

- 1991 *Phelsuma klemmeri* SEIPP, Senckenb. biol., **71** (1/3): 11, fig. 1. – Type locality: “Küste NW-Madagaskars.” – Holotype: SMF 74262.
1993 *Phelsuma klemmeri* – OBST (ex errore), Aquar. Terrar. Info, **11** (12): 6.
2009 *Phelsuma klemmeri* – SAVEY (ex errore), Thesis, École Nationale Veterinaire d'Alfort: 138; fig. p. 154.
2010 *P[helsuma] klemmeri* – SCHMIDT et al. (ex errore), Amph. Rept., **31** (3): 358.
2011 *Phelsuma klemmeri* – BEOLENS et al., Eponym Dict. Rept.: 143.

Distribution: Known from the Ampasindava peninsula in northwestern Madagascar (VAN HEYGEN 2004) and the Mandrozo forest 600 km further southwest (RAZAFIMAHATRATRA et al. 2010).

Comment: Placed in the *Phelsuma klemmeri* group by ROCHA et al. (2010). The exact type locality was not given in the original description, but was said to be known in the herpetology section of the SMF (SEIPP 1991: 11).

***Phelsuma kochi* MERTENS, 1954**

- 1954 *Phelsuma madagascariensis kochi* MERTENS, Senckenb. biol., **35** (1/2): 13, pl. 1, figs. 2a, 2b; pl. 2, figs. 3–5. – Type locality: “Maevatanana, Nordwest-Madagaskar”. – Holotype: SMF 47872.
1990 *P[helsuma] m[adagascariensis] kochi* – TYTLE (ex errore), Vivar., **2** (5): 18.
2007 *Phelsuma kochi* – RAXWORTHY et al., Syst. Biol. **56** (6): 917.

Distribution: Western and northwestern Madagascar (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma madagascariensis* group by ROCHA et al. (2010).

***Phelsuma laticauda* (BOETTGER, 1880)**

Distribution: Northern Madagascar and Comoros archipelago.

***Phelsuma laticauda laticauda* (BOETTGER, 1880)**

- 1880 *Pachydactylus laticauda* BOETTGER, Zool. Anz., **3**: 280. – Type locality: “Insula Nossi-Bé” (= Nosy Be Island, northwest Madagascar). – Lectotype: SMF 9475 (designated by MERTENS 1967). – Synonymy fide BOULENGER 1885.
1880 *P[achydactylus] laticauda* – BOETTGER (ex errore), Abh. senckenberg. naturf. Ges., **12**: 465.
1885 *Phelsuma laticauda* – BOULENGER, Cat. Lizards Brit. Mus., ed. 2, **1**: 215.
1904 *Phelsuma laticaudum* (ex errore) – KREFFT, Bl. Aquar. Terrarienk., **15**: 90.
1913 *Phelsumia laticauda* – BOETTGER in VOELTZKOW (ex errore), Reise O-Afr. 1903–1905, 3. Syst. Arb. (4): 339.
1922 *Phelsumia laticauda* – MERTENS (ex errore), Senckenberg. biol., **4**: 170.

- 1964 *Phelsuma laticauda laticauda* – MERTENS, Senckenb. biol., **45** (2): 101.
 1980 *Phelsuma laticouda* – OOSTVEEN (ex errore), Lacerta, **38** (10–11): 100; fig. p. 100.
 2013 *Phelsumala ticauda* – BAUER (ex errore), Geck.: Anim. Answ. Guide: colour pl., part two, no pagin, fig. top.
 2013 *Phelsuma laticauda laticauda* – DE LISLE et al., Gekk. cat. rec. spec.: 196.

Distribution: Northeast and northwest Madagascar (GLAW & VENCES 2007), with recent range expansions at the east coast (GEHRING et al. 2010a, DUBOS et al. 2014). Introduced or presumably introduced to the Comoroan islands Mayotte and Anjouan (ROCHA et al. 2007, HAWLITSCHKE et al. 2011), the southern Seychelles Islands Farquhar, Cerf, and Providence (CHEKE 1984), the Mascarene Islands La Réunion (TURPIN & PROBST 1997) and Mauritius (e. g. COLE, unpublished), French Polynesia (OTA & INEICH 2006), Florida (KRYSKO et al. 2011, KRYSKO & BORGIA 2012) and Hawaii (MCKEOWN 1996, KRAUS 2009).

Comment: Placed in the *Phelsuma laticauda* group by ROCHA et al. (2010).

***Phelsuma laticauda angularis* MERTENS, 1964**

- 1964 *Phelsuma laticauda angularis* MERTENS, Senckenb. biol., **45** (2): 99, fig. 1. – Type locality: “Antsohihy, östlich der Baie de Narinda, NW-Madagaskar”. – Holotype: SMF 59370.
 2005 *Phelsuma Laticuada angularis* – CHRISTENSON (ex errore), Reptile Care, **10**: 31; fig. p. 31.
 2013 *Phelsuma laticauda angularis* – DE LISLE et al., Gekk. cat. rec. spec.: 196.

Distribution: Northwest Madagascar (HALLMANN et al. 2008).

Comment: Genetically well distinct from *P. l. laticauda* (GLAW et al. 2010).

***Phelsuma lineata* GRAY, 1842**

Distribution: Madagascar.

***Phelsuma lineata lineata* GRAY, 1842**

- 1831 *Gecko madagascariensis* GRAY in GRIFFITH (partim), Anim. Kingd., 9 Synops.: 49.
 1842 *Phelsuma lineatum* GRAY, Zool. Misc., London, Pt. IV: 57. – Type locality: Madagascar. – Holotype: BMNH 55.12.26.323 (formerly RR.1946.8.26.31, see KRÜGER 1996).
 1878 *Pachydactylus lineatum* – BOETTGER, Abh. senckenberg. naturf. Ges., **11**: 37.
 1879 *Phelsuma lineatum* – BOETTGER, Abh. senckenberg. naturf. Ges., **11**: 482.
 1913 *Phelsumia lineata* var. *bifasciata* BOETTGER in VOELTZKOW, Reise in Ostafrika, **3**: 294. – Type locality: “Ankarimbela, SC. Mad.” and “Fianarantsoa, SC. Mad.” (Madagascar). – Syntypes: 15 specimens. Lectotype (from Ankarimbela): SMF 9601 (designated by MERTENS 1967). – Synonymy fide LOVERIDGE 1942.
 1942 *Phelsuma lineata* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 451.
 1962 *Phelsuma lineata lineata* – MERTENS, Senckenb. biol., **43**: 98.
 1962 *Phelsuma lineata chloroscelis* MERTENS, Senckenb. biol., **43**: 100, pl. 9, fig. 7. – Type locality: “Perinet, 950 m H., östliches Mittel-Madagaskar.” – Holotype: SMF 57516. – Synonymy fide KRÜGER 1993, 1995.
 1980 *Phelsuma minuthi* BÖRNER, MAS (Miscellaneous Articles in Saurology, published by the author), Köln, **6**: 3. – Type locality: “no locality” – Holotype: BSRC Geck 19 MC. – Synonymy fide KRÜGER 1993.
 1980 *Ph[elsuma] Lineata gloriskelis* – OOSTVEEN (ex errore), Lacerta, **38** (10–11): 99; fig. p. 99.
 1981 *Phelsuma lineata cloroscelis* – ZIMMERMANN & ZIMMERMANN (ex errore), Herpetofauna, **3** (15): 32.
 1990 *P[helsuma] lineata chlorescelis* – TYTLE (ex errore), Vivar., **2** (5): 18.
 1991 [*Phelsuma*] *lineolata* – PETERS (ex errore), Urania Tierr., Rept.: 713.
 1992 *Phelsuma lineata chloroschelis* – HENNING (ex errore), Vivar., **3** (6): 19.
 1995 *Phelsuma lineata bifasciata* – KRÜGER, Salamandra, **31** (1): 52, figs. 2–3.
 1996 *Phelsuma lineata lineata* – KRÜGER, Sauria, **18** (3): 38.
 2011 *Phelsuma lineta* – GEOFFREY (ex errore), Thesis, Université Paul-Sabatier de Toulouse: 79.
 2013 *P[helsuma] lineate* – BAUER (ex errore), Geck.: Anim. Answ. Guide: 136.
 2013 *Phelsuma lineata lineata* – DE LISLE et al., Gekk. cat. rec. spec.: 196.
 2013 *Phelsuma lineata bifasciata* – DE LISLE et al., Gekk. cat. rec. spec.: 196.
 2013 *Phelsuma lineata chloroscelis* – DE LISLE et al., Gekk. cat. rec. spec.: 196.

Distribution: East coast of Madagascar (GEHRING et al. 2013).

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010). DE LISLE et al. (2013) consider *P. l. bifasciata* and *P. l. chloroscelis* as valid subspecies without providing evidence. We here continue to consider both of these names as synonyms of *P. l. lineata* as suggested by KRÜGER (1993, 1995, 1996), pending further study.

***Phelsuma lineata bombetokensis* MERTENS, 1964**

- 1964 *Phelsuma lineata bombetokensis* MERTENS, Senckenb. biol., **45** (2): 102, fig. 2. – Type locality: “Marovoay, unweit der Bombetoke-Baie, NW-Madagaskar”. – Holotype: SMF 59379.
 1980 [*Phelsuma*] [*lineata*] *bombetokenensis* – RÖSLER (ex errore), Elaphe, **1980** (2): 19.
 2011 *P[helsuma] lineata bombetokebsis* – GEOFFREY (ex errore), Thesis, Université Paul-Sabatier de Toulouse: 73.
 2013 *Phelsuma lineata bombetokensis* – DE LISLE et al., Gekk. cat. rec. spec.: 196.

Distribution: Northwestern Madagascar (HALLMANN et al. 2008).

***Phelsuma lineata elanthana* KRÜGER, 1996**

- 1996 *Phelsuma lineata elanthana* KRÜGER, Sauria, **18** (3): 39. – Type locality: “Antananarivo, Zentral-Madagaskar” – Holotype: ZFMK 47227.

Distribution: Central eastern Madagascar (GEHRING et al. 2013).

Comment: Genetically closely related to *P. l. bombetokensis* (GLAW et al. 2010).

***Phelsuma lineata punctulata* MERTENS, 1970**

- 1970 *Phelsuma lineata punctulata* MERTENS, Senckenb. biol., **51** (1/2): 3, fig. 2. – Type locality: “Massiv Tsaratanana, N. Madagaskar.” – Holotype: SMF 65500.
 1980 [*Phelsuma*] [*lineata*] *punktulata* – RÖSLER (ex errore), Elaphe, **1980** (2): 19.
 2001 *P[helsuma] lineata punctulata* – RÖSLER, Gekkota, **3**: 48.

Distribution: Northern Madagascar (GEHRING et al. 2013).

Comment: RÖSLER & INEICH (2010) found that the holotype is a male rather than a female as was stated in the original description. This taxon shows substantial genetic distance to other populations of *P. lineata* (GEHRING et al. 2013).

***Phelsuma madagascariensis* (GRAY, 1831)**

Distribution: Eastern Madagascar.

***Phelsuma madagascariensis madagascariensis* (GRAY, 1831)**

- 1831 *Gecko madagascariensis* GRAY (partim) in GRIFFITH, Anim. Kingd., **9**, Synops. 49. – Type locality: Madagascar. – Holotype: BMNH 1946.8.26.34 (DE LISLE et al. 2013).
 1843 *Platydactylus madagascariensis* – FITZINGER, Syst. Rept., **1**: 99.
 1878 *Pachydactylus Cepedianus* – BOETTGER (partim), Abh. senckenberg. naturf. Ges., **11**: 37.
 1879 [*Phelsuma lineatum*] var. *madagascariensis* – BOETTGER, Abh. senckenberg. naturf. Ges., **11**: 482.
 1880 *P[achydactylus] madagascariensis* – BOETTGER, Abh. senckenberg. naturf. Ges., **12**: 465.
 1885 *Phelsuma madagascariense* – BOULENGER, Cat. Lizards Brit. Mus., ed. 2, **1**: 214.
 1913 *Phelsumia madagascariense* – BOETTGER in VOELTZKOW (ex errore), Reise O-Afr. 1903–1905, 3. Syst. Arb. (4): 291.
 1942 *Phelsuma madagascariensis madagascariensis* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 470.
 1961 *Phelsuma madagascariënsis* – VOGT & WERMUTH (ex errore), Knauers Aquar. Terrariensb.: 238; fig. p. 239.
 1962 *Phelsuma madagascariensis martensi* MERTENS, Senckenb. biol., **43**: 105, pl. 10, figs. 10–12. – Type locality: “Ambavala bei Fénerive, O-Madagaskar.” – Holotype: SMF 57505. – Synonymy fide MERTENS 1970.
 1967 *Phelsuma madagascariensis* – SAINT GIRONS (ex errore), Ann. Sci. Nat. Zool., (2) **9**: 235.
 1970 *Phelsuma madagascariensis madagascariensis* – MERTENS, Senckenb. biol., **51** (1/2): 4.
 1972 *Phelsuma (Neophelsuma) madagascariensis* – BÖRNER, Revision gen. *Phelsuma*: 12.
 1998 *P[helsuma] madagascariensi* – GÉRARD (ex errore), L'élev. Geck. Diurn. Uroplat.: 19.
 2007 *Phelsuma madagascariensis* – RAXWORTHY et al., Syst. Biol., **56** (6): 917, fig. 5d.
 2008 *Phelsuma madagascariensis madagascariensis* – HALLMANN et al., Fasz. Taggeckos, 2nd ed.: 154, figs. 119, 120.

Distribution: Eastern Madagascar. A potential contact zone between *P. madagascariensis* and *P. grandis* in northeastern Madagascar was discussed by KRÜGER (1996c).

Comment: Placed in the *Phelsuma madagascariensis* group by ROCHA et al. (2010).

***Phelsuma madagascariensis boehmei* MEIER, 1982**

- 1982 *Phelsuma madagascariensis (madagascariensis) boehmei* MEIER, Salamandra, **18** (3/4): 183, fig. 4. – Type locality: “Perinet” (eastern Madagascar). – Holotype: ZFMK 32107.
 1992 *Phelsuma cariensis boehmei* – RÖSLER (ex errore), Acta Biol. Benrodis, **4** (1+2): 178.
 1992 *P[helsuma] madagascariensis boehmi* – PLATTEEUW & DOOMS (ex errore), Phelsuma, **2** (4): 86.
 2007 *Phelsuma madagascariensis* – RAXWORTHY et al., Syst. Biol., **56** (6): 917.
 2008 *Phelsuma madagascariensis boehmei* HALLMANN et al., Fasz. Taggeckos, 2nd ed.: 157, figs. 121, 122.

Distribution: Only known from the type locality (Andasibe) in eastern Madagascar (BERGHOF 2014).

Comment: The synonymization of *P. m. boehmei* with *P. madagascariensis* proposed by RAXWORTHY et al. (2007) was not accepted by HALLMANN et al. (2008) and BERGHOF (2014), and is in need of revision.

***Phelsuma malamakibo* NUSSBAUM, RAXWORTHY, RASELIMANANA & RAMANAMANJATO, 2000**

- 2000 *Phelsuma malamakibo* NUSSBAUM et al., Copeia, **2000** (3): 764, figs. 1, 2. – Type locality: “13.5 linear km northwest of Eminiminy, 24°35.04’S, 46°44.08’E, 1200 m elevation, in Réserve Naturelle Intégrale d’Andohahela, eastern slopes of Anosyenne Mountains, Taolagnaro Fivondronana, Toliara Province, Madagascar” – Holotype: UMMZ 214972 (RAN 52828).
 2001 [*Phelsuma*] *malmakibo* – KLUGE (ex errore), Hamadryad, **26** (1): 22.
 2007 *Phelsuma malamakibo* – GLAW & VENCES, Field Guide Amph. Rept. Madagascar, 3rd ed.: 396; figs. p. 397 [2 a–b].

Distribution: Andohahela reserve in southeastern Madagascar (NUSSBAUM et al. 2000).

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010).

***Phelsuma masohoala* RAXWORTHY & NUSSBAUM, 1994**

- 1994 *Phelsuma masohoala* RAXWORTHY & NUSSBAUM, Zool. J. Linn. Soc., **112** (3): 328, fig. 3. – Type locality: “Cap Est, 15°15’S, 50°29’E, 5 m altitude, Antalaha Fivondronana, Antsiranana Province, Madagascar.” – Holotype: UMMZ 203688.

Distribution: Known from a single locality in northeastern Madagascar (RAXWORTHY & NUSSBAUM 1994).

Comment: Placed with uncertainty in the *Phelsuma madagascariensis* group by ROCHA et al. (2010).

***Phelsuma modesta* MERTENS, 1970**

Distribution: Southern Madagascar.

***Phelsuma modesta modesta* MERTENS, 1970**

- 1970 *Phelsuma modesta* MERTENS, Senckenb. biol., **51** (1/2): 10, fig. 3. – Type locality: “Ambovombé, S. Madagascar.” – Holotype: SMF 65518.
 1993 *Phelsuma leiogaster isakae* MEIER, Salamandra, **29** (2): 127, fig. 8. – Type locality: “Isaka” (southeast Madagascar). – Holotype: ZFMK 54981. – Synonymy fide HOFMANN & TRAUTMANN 2012.
 1993 *Phelsuma leiogaster trautmanni* MEIER, Salamandra, **29** (2): 129, fig. 9. – Type locality: “Fort Dauphin” (= Tolagnaro, southeast Madagascar) – Holotype: ZFMK 55122. – Synonymy fide KRÜGER 1996.
 1996 *Phelsuma modesta modesta* – KRÜGER, Herpetofauna, **18** (102): 7.
 1996 *Phelsuma modesta isakae* – KRÜGER, Herpetofauna, **18** (102): 8.
 2012 *Phelsuma modesta modesta* – HOFMANN & TRAUTMANN, Sauria, **34** (4): 41.

Distribution: Southeast and south Madagascar (GLAW & VENCES 2007, HOFMANN & TRAUTMANN 2012).

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010).

***Phelsuma modesta leiogaster* MERTENS, 1973**

- 1973 *Phelsuma lineata leiogaster* MERTENS, Senckenb. biol., **54**: 299. – Type locality: “Tuléar, S. W. Madagascar.” – Holotype: SMF 68080.
1989 *Phelsuma leiogaster* – MEIER, Salamandra, **25** (3/4): 230.
1991 *Pl. (?) leiogaster* (sic) – HENKEL & SCHMIDT, Geck., Biol. Halt. Zucht: 174.
1993 *Phelsuma leiogaster leiogaster* – MEIER, Salamandra, **29** (2): 127.
1996 *Phelsuma modesta leiogaster* – KRÜGER, Herpetofauna, **18** (102): 9.

Distribution: Southwest Madagascar (GLAW & VENCES 2007).

***Phelsuma mutabilis* (GRANDIDIER, 1869)**

- 1869 *Platydyctylus mutabilis* GRANDIDIER, Rev. Mag. Zool., Paris, (2) **21**: 341. – Type locality: “Fiérin et Ménabé”, (western Madagascar). Restricted type locality (MERTENS 1962): Ménabé (western Madagascar). – Syntypes (at least two specimens): MNHN 1895.152 and 1895.154.
1879 *Pachydactylus mutabilis* – BOETTGER, Abh. Senckenb. naturf. Ges., **11**: 37.
1880 ? *Peripia mutabilis* – BOETTGER, Abh. Senckenb. naturf. Ges., **12**: 531.
1901 *Phelsuma androyense* MOCQUARD, Bull. Mus. Hist. Nat., Paris, **7**: 252. – Type locality: “Androy Nord” (south Madagascar). – Syntypes: MNHN 1901.150 and 1901.151. – Synonymy fide MOCQUARD 1902.
1902 *Phelsuma mutabilis* – MOCQUARD, Bull. Soc. Philom., Paris, **4**: 10.
1913 *Phelsumia micropholis* BOETTGER in VOELTZKOW, Reise Ostafrika, **3**: 293, Taf. XXIV, fig. 7. – Type locality: Tsimanampetso (male) and Menabe (female). Restricted type locality (MERTENS 1922): Menabé, W-Madagascar. – Lectotype: SMF 9473 (designated by MERTENS 1967). – Synonymy fide LOVERIDGE 1942.
1913 *Phelsumia mutabilis* – BOETTGER in VOELTZKOW (ex errore), Reise O-Afr. 1903–1905, **3**. Syst. Arb. (4): 370.
1913 *Phelsuma mutabile* – METHUEN & HEWITT, Ann. Transv. Mus., Pretoria, **3** (4): 186.
1942 *Phelsuma mutabilis* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 475.
1982 *Phelsuma matabilis* – HOESCH (ex errore), Sauria, **4** (3): 15.
1986 *Phelsuma (Rhoptropella) mutabilis* – MUDDE, Inst. Taxonom. Zool.: 23.
2003 *P[helsuma] mutabilis* – CHRISTENSON & CHRISTENSON (ex errore), Day Geck. Capt.: 28.
2007 *Phelsuma mutabilis* – GLAW & VENCES, Field Guide Amph. Rept. Madagascar, 3rd ed.: 400; fig. p. 401 [1].

Distribution: Southern and western Madagascar (CROTTINI et al. 2011).

Comment: Placed in the *Phelsuma mutabilis* group by ROCHA et al. (2010).

***Phelsuma nigristriata* MEIER, 1984**

- 1984 *Phelsuma nigristriata* MEIER, Salamandra, **20** (1): 32, figs. 1–3. – Type locality: Given as “Komoren”, but actually from Ivambeni, Mayotte (BÖHME 2014). – Holotype: ZFMK 40317.
1994 [*Phelsuma*] *nigristriata* – HESELHAUS (ex errore), Taggeckos Phels.: 41.
1994 *Phelsuma nigristriata* – WELCH, Liz. World, 1. Geck.: 103.

Distribution: Endemic to Mayotte Island (HAWLITSCHKE et al. 2011).

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010). The exact type locality was not given in the original description, but was said to be known in the herpetology section of the ZFMK (MEIER 1984: 32).

“*Phelsuma ocellata*”

Comment: Several studies have shown that this species does not belong to the genus *Phelsuma* (RÖLL 1999, AUSTIN et al. 2004) and consequently it was transferred to the monotypic genus *Rhoptropella*. See account on *Rhoptropella ocellata* below.

***Phelsuma ornata* GRAY, 1825**

- 1825 *Phelsuma ornatum* GRAY, Ann. Philos. London, (2) **10**: 199. – Type locality: “Isle of France” (Mauritius). – Holotype: BMNH 1946.8.30.82 fide VINSON & VINSON (1969).
- 1827 *Phelsuma ornata* – GRAY, Reptilia. Appendix in: P.P. KING: Narrative of a survey of the intertropical and western coasts of Australia, performed between the years 1818 and 1822. – London, **2**: 428.
- 1831 *Plat[ydactylus] Ornatus* – GRAY in GRIFFITH & PIDGEON, Anim. Kingd. Cuvier, **9** (Synop. Spec.): 48.
- 1843 *Anoplopus (Colobopus) ornatus* – FITZINGER, Syst. Rept., **1**: 99.
- 1963 *Phelsuma vinsoni* MERTENS, Senckenb. biol., **44** (5): 353, fig. 2. – Type locality: “Sebastopol, about 300 m H, Mauritius.” – Holotype: SMF 58509. – Synonymy fide MERTENS 1970.
- 1966 *Phelsuma vinsoni vinsoni* – MERTENS, Senckenb. biol., **47** (2): 87.
- 1967 *Phelsuma ornatum* – American Society Ichthyology and Herpetology, Bull. Zool. Nomenclat., **24** (4): 208.
- 1970 *Phelsuma ornata ornata* – MERTENS, Senckenb. biol., **51** (1/2): 11.
- 1994 *P[helsuma] ornata vinsoni* HESSELHAUS (ex errore), Taggeckos Phels.: 43.
- 1995 *Phelsuma ornata* – BOUR et al., Dumerilia, **2**: 100.
- 2009 *Phelsuma ornate* – ECKSTUT et al. (ex errore), Animal Reprod.: New Res. Develop.: 206.
- 2009 *P[helsuma] ornata* – ROCHA et al., Mol. Phylogenet. Evol., **52**: 535.

Distribution: Mauritius and adjacent islands (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010).

***Phelsuma parkeri* LOVERIDGE, 1941**

- 1941 *Phelsuma madagascariensis parkeri* LOVERIDGE, Proc. Biol. Soc. Washington, **54**: 175. – Type locality: Kinowe, Pemba Island. – Holotype: MCZ R-46086.
- 1962 *Phelsuma abbotti parkeri* – MERTENS, Senckenb. biol., **43** (2): 87.
- 1963 *Phelsuma parkeri* MERTENS, Senckenb. biol., **44** (5): 349.
- 2002 *Phelsuma abbotti parkeri* – SPAWLS et al., Field Guide Rept. East Africa: 117.
- 2006 *P[helsuma] parkeri* – SOUND et al., Herpetol. Bonn. 2, Proc. 13th Cong. Soc. Europ. Herpetol.: 177.

Distribution: Pemba Island, Tanzania (RÖDDER et al. 2010).

Comment: The molecular data by ROCHA et al. (2009) have demonstrated that *P. parkeri* is not the sister species of *P. abbotti*. Placed in the *Phelsuma madagascariensis* group by ROCHA et al. (2010). SPAWLS et al. (2002: 117) figured *P. abbotti* instead of *P. parkeri*.

***Phelsuma parva* MEIER, 1983**

- 1983 *Phelsuma quadriocellata parva* MEIER, Salamandra, **19** (3): 117, figs. 4–5. – Type locality: “Tamatave” (= Toamasina, east coast of Madagascar). – Holotype: ZFMK 19315.
- 2010 *Phelsuma parva* – ROCHA et al., Zootaxa, **2429**: 22, fig. 9.

Distribution: East coast of Madagascar (ROCHA et al. 2010).

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010).

***Phelsuma pasteuri* MEIER, 1984**

- 1984 *Phelsuma v-nigra pasteuri* MEIER, Salamandra, **20** (1): 35, fig. 4. – Type locality: Given as “Komoren”, but actually from Ivambeni, Mayotte (BÖHME 2014). – Holotype: ZFMK 40310.
- 1999 *Phelsuma pasteuri* – MEIRTE, La faune terrestre de Mayotte: 127
- 2005 *P[helsuma] v-nigra pasturi* – ROGNER (ex errore), Echsen: 141.
- 2006 *P[helsuma] pasteuri* – SOUND et al., Herpetol. Bonn. 2, Proc. 13th Cong. Soc. Europ. Herpetol.: 176.

Distribution: Endemic to Mayotte Island (HAWLITSCHKE et al. 2011).

Comment: Placed in the *Phelsuma laticauda* group by ROCHA et al. (2010). The exact type locality was not given in the original description, but was said to be known in the herpetology section of the ZFMK (MEIER 1984: 35).

***Phelsuma pronki* SEIPP, 1994**

1994 *Phelsuma pronki* SEIPP, Senckenb. biol., **74** (1/2): 193. – Type locality: “Zentral-Madagaskar, nahe Andramasina.” – Holotype: SMF 75950.

Distribution: Known only from a small area in eastern Madagascar (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma barbouri* group by ROCHA et al. (2010). Closely related to *P. barbouri* (ROCHA et al. 2009), but distinct by colouration, egg-laying behaviour and habits (HALLMANN et al. 2008, ROCHA et al. 2010).

***Phelsuma pusilla* MERTENS, 1964**

Distribution: Eastern Madagascar.

***Phelsuma pusilla pusilla* MERTENS, 1964**

1964 *Phelsuma lineata pusilla* MERTENS, Senckenb. biol., **45** (2): 108, fig. 4. – Type locality: “Ambila-Lemaitso bei Brickaville, O-Madagaskar.” – Holotype: SMF 57512.

1981 *Phelsuma* [*lineata*] *pussila* – OOSTVEEN (ex errore), Phels.: 93.

1986 *Phelsuma lineata pusila* – MUDDE (ex errore), Inst. Taxonom. Zool.: 13.

1989 *Phelsuma pusilla pusilla* – MEIER, Salamandra, **25** (3/4): 226.

1994 *P[helsuma] lineata prusila* – VIETS et al. (ex errore), J. Exp. Zool., **270**: 46.

1994 *Phelsuma pusilla pusilla* – GLAW & VENCES, Fieldg. Amph. Rept. Madagascar, 2nd ed.: 295; fig. 285.

Distribution: East coast of Madagascar (HALLMANN et al. 2008), but the distribution range is in need of revision.

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010). The taxonomy of this species complex is in need of revision (GEHRING et al. 2013).

***Phelsuma pusilla hallmanni* MEIER, 1989**

1989 *Phelsuma pusilla hallmanni* MEIER, Salamandra, **25** (3/4): 231, figs. 1–6. – Type locality: “Perinet (Andasibe)” (eastern Madagascar). – Holotype: ZFMK 50342.

2002 *Phelsuma rusilla wallmanni* FALK (ex errore), Geck.: 85; figs. pp. 82, 85.

2005 *P[helsuma] pusilla hallmani* – BERGHOF (ex errore), Taggeckos, Phels., Pflege Vermehr.: 24.

2005 *P[helsuma] pupilla hallmanni* – ROGNER (ex errore), Echsen: 141.

2007 *P[helsuma] p[usilla] hallmanni* – GLAW & VENCES, Field Guide Amph. Rept. Madagascar, 3rd ed.: 404; fig. p. 405 [1b].

Distribution: Eastern Madagascar.

Comment: The taxonomy of this subspecies is in need of revision (GEHRING et al. 2013).

***Phelsuma quadriocellata* (PETERS, 1883)**

Distribution: Eastern Madagascar.

***Phelsuma quadriocellata quadriocellata* (PETERS, 1883)**

1883 *Pachydactylus quadriocellatus* PETERS, Sb. Ges. Naturf. Freunde, Berlin: 28. – Type locality: Madagascar (probably central Madagascar). – Lectotype ZMB 10456 (designated by MEIER 1983: 110).

1909 *Phelsuma quadriocellatum* – MOCQUARD, Nouv. Arch. Mus. (5) **1**: 20, 98.

1942 *Phelsuma quadriocellata* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 454.

1983 *Phelsuma quadriocellata quadriocellata* – MEIER, Salamandra, **19** (3): 110.

1983 *Phelsuma quadriocellata leiura* MEIER, Salamandra, **19** (3): 116. – Type locality: “Imotra, Südplateau von 1300 m H., S-Madagaskar.” – Holotype: SMF 57233. – Synonymy fide KRÜGER 1996.

1993 [*Phelsuma quadriocellata*] *quadriocellata* – KLUGE, Gekk. Liz. Taxon.: 27.

Distribution: Eastern Madagascar (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma lineata* group by ROCHA et al. (2010).

***Phelsuma quadriocellata bimaculata* KAUDERN, 1922**

1922 *Phelsuma bimaculata* KAUDERN, Zool. Jahrb. Syst., **45**: 420, Taf. 12 fig. 2. – Type locality: “Fandrarezana” (eastern Madagascar). – Syntypes: 1 male, 1 female (KAUDERN 1922). NHRM 3168 (fide DE LISLE et al. 2013).

1983 *Phelsuma quadriocellata bimaculata* – MEIER, Salamandra, **19** (3): 114.

Distribution: Eastern Madagascar (HALLMANN et al. 2008).

Comment: It is not clear from the work of DE LISLE et al. (2013) if the number NHRM 3168 refers to one of the two syntypes or to both.

***Phelsuma quadriocellata lepida* KRÜGER, 1993**

1993 *Phelsuma quadriocellata lepida* KRÜGER, Salamandra, **29** (2): 133, figs. 1–2. – Type locality: “Andapa, Nord-Ost-Madagaskar” – Holotype: ZFMK 54500.

Distribution: Northeastern Madagascar (HALLMANN et al. 2008).

***Phelsuma ravenala* RAXWORTHY, INGRAM, RABISOA & PEARSON, 2007**

2007 *Phelsuma ravenala* RAXWORTHY et al., Syst. Biol., **56** (6): 918, fig. 5j. – Type locality: “outskirts of Mananjary Town, 21°12.004’S, 48°21.254’E, 20 m elevation, Mananjary Fivondronana, Fianarantsoa Province, Madagascar.” – Holotype: AMNH R-155718 (Rax 8676).

Distribution: Coastal areas in eastern Madagascar (RAXWORTHY et al. 2007).

Comment: Placed in the *Phelsuma dubia* group by ROCHA et al. (2010). Genetically nested within *P. dubia* the validity of this species is uncertain and its taxonomy is in need of revision (ROCHA et al. 2009).

***Phelsuma robertmertensi* MEIER, 1980**

1980 *Phelsuma robertmertensi* MEIER, Bonn. Zool. Beitr., **31** (3–4): 327, fig. 1. – Type locality: Given as “Komoren“, but actually from Mayotte (BÖHME 2014). – Holotype: ZFMK 29899.

1991 *P[helsuma] robertmertensis* – KIRSCHNER et al. (ex errore), Tierärztl. Umsch., **46**: 220.

1992 *Phelsuma robertmertensii* – ROGNER (ex errore), Echsen, **1**: 82.

1993 [*Phelsuma*] *robertmertensi* – KLUGE, Gekk. Liz. Taxon.: 27.

Distribution: Endemic to Mayotte Island (HAWLITSCHKE et al. 2011).

Comment: Placed in the *Phelsuma laticauda* group by ROCHA et al. (2010). The exact type locality was not given in the original description, but was said to be known in the herpetology section of the ZFMK (MEIER 1980: 327).

***Phelsuma roesleri* GLAW, GEHRING, KÖHLER, FRANZEN & VENCES, 2010**

2010 *Phelsuma roesleri* GLAW et al., Salamandra, **46** (2): 84, figs. 1–4. – Type locality: “Ankarana Massif approximately 2 km NE Mahamasina (aerial distance), 12°57’42” S, 49°08’59” E, 128 m above sea level, Antsiranana Province, north Madagascar.” – Holotype: ZSM 1517/2008 (FGZC 1828).

Distribution: Only known from Ankarana massif in northern Madagascar (GLAW et al. 2010).

Comment: Placed in the *Phelsuma laticauda* group by GLAW et al. (2010).

***Phelsuma rosagularis* VINSON & VINSON, 1969**

1969 *Phelsuma guimbeaui rosagularis* VINSON & VINSON, Mauritius Inst. Bull., **6** (4): 283, fig. 11 (2). – Type locality: “Les Mares (600 metres above sea level)”, Mauritius. – Holotype: JMV 69.R.153.

2000 *P[helsuma] roseogularis* – ARNOLD in RHEINWALD (ex errore), Bonn. zool. Monogr., **46**: 311.

2000 [*Phelsuma*] *guimbeau rosagularis* – RÖSLER (ex errore), Gekkota, **2**: 102.

2004 *Phelsuma rosagularis* – AUSTIN et al., Mol. Phylogenet. Evol., **31**: 118.

2013 *P[helsuma] rosagularius* – SAENKO et al. (ex errore), BMC Biol., **11**, 105: 3.

2013 *Phelsuma rosagularis* – DE LISLE et al., Gekk. cat. rec. spec.: 200.

Distribution: Southern parts of Mauritius (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma cepediana* group by ROCHA et al. (2010).

***Phelsuma seippi* MEIER, 1987**

1987 *Phelsuma seippi* MEIER, Salamandra, **23** (4): 204, figs. 1–3. – Type locality: “Nossi Bé” (Madagascar). – Holotype: ZFMK 46702.

Distribution: Sambirano region in northwestern Madagascar (GLAW & VENCES 2007).

Comment: Placed in the *Phelsuma madagascariensis* group by ROCHA et al. (2010).

***Phelsuma serraticauda* MERTENS, 1963**

1963 *Phelsuma serraticauda* MERTENS, Senckenb. biol., **44** (5): 350, fig. 1. – Type locality: “Ivoloina, 12 km nördlich von Tamatave, O-Madagaskar.” – Holotype: SMF 58513.

Distribution: East Coast of Madagascar (GEHRING et al. 2010b).

Comment: Due to equivocal evidence not placed into any species group by ROCHA et al. (2010).

***Phelsuma standingi* METHUEN & HEWITT, 1913**

1913 *Phelsuma standingi* METHUEN & HEWITT, Ann. Transvaal Mus., Pretoria, **3** (4): 187. – Type locality (given together with localities for *Phelsuma mutabilis*): “Forest fringing Onilahy River at Mároamálona, Andranoláho, and at Tôngobóry” (METHUEN & HEWITT 1913: 186). Restricted type locality (according to WERMUTH 1965): “Forest fringing Onilahy River at Maroamalona, southwestern Madagascar” (LOVERIDGE 1942: 459). – Holotype: TM 4251.

1990 *P[helsuma] standingi* – SOMMA (ex errore), Smith. Herpetol. Info. Serv., **81**: 14.

1998 *Phelsuma standingi* – RÖSLER (ex errore), Gekkota, **1**: 126.

2005 *Phelsuma standingii* – BENYR (ex errore), Herpetozoa, **18** (3/4): 173.

2006 *P[helsuma] standingi* – SOUND et al., Herpetol. Bonn. 2, Proc. 13th Cong. Soc. Europ. Herpetol.: 177.

Distribution: Southwest Madagascar (HALLMANN et al. 2008). Introduced to Florida, but it remains unclear if a population has established (KRYSKO et al. 2011).

Comment: Placed in the *Phelsuma standingi* group by ROCHA et al. (2010).

***Phelsuma sundbergi* RENDAHL, 1939**

Distribution: Seychelles.

***Phelsuma sundbergi sundbergi* RENDAHL, 1939**

1939 *Phelsuma sundbergi* RENDAHL, Zool. Jb. Syst., **72**: 274, figs. 3–5. – Type locality: “Seychellen, Praslin Island”. – Syntypes: 24 specimens (no. 3995) according to the original description. Holotype: NHRM 4004 (DE LISLE et al. 2013).

1942 *Phelsuma mascareniensis sundbergi* LOVERIDGE (ex errore), Bull. Mus. Comp. Zool., **89**: 457.

1942 *Phelsuma sundberg* – LOVERIDGE (ex errore), Bull. Mus. comp. Zool., **89**: 457.

1962 *Phelsuma madagascariensis sundbergi* – MERTENS, Senckenb. biol., **43** (2): 108.

1981 *Phelsuma madagascariensis (sundbergi) sundbergi* – BÖHME & MEIER, Salamandra, **17** (1/2): 12.

1981 *Phelsuma madagascariensis* – CRAWFORD & THORPE, Biol. J. Linn. Soc., **15**: 30.

1985 *Phelsuma sundbergi sundbergi* – GARDNER, Herpetol. J., **1**: 19.

1995 *Phelsuma sundberghi sundberghi* – HALLMANN (ex errore), Elaphe, **3** (4): 24.

1998 *Phelsuma s[undbergi] sundbergi* – RÖSLER (ex errore), Gekkota, **1**: 126.

2013 *Phelsuma sundbergii* – PAWLOWSKI (ex errore), Sauria, **35** (1): 48.

2013 *Phelsuma sundbergi sundbergi* – DE LISLE et al., Gekk. cat. rec. spec.: 200.

Distribution: Several Seychelles Islands: Praslin, Curieuse, and several smaller islands (HALLMANN et al. 2008).

Comment: Placed in the *Phelsuma astriata* group by ROCHA et al. (2010).

***Phelsuma sundbergi ladiguensis* BÖHME & MEIER, 1981**

1981 *Phelsuma madagascariensis (sundbergi) ladiguensis* BÖHME & MEIER, Salamandra, **17** (1/2): 13. – Type locality: “Seychellen: La Digue.” – Holotype: ZFMK 33411.

1985 *Phelsuma sundbergi ladiguensis* – GARDNER, Herpetol. J., **1**: 19.

1995 *Phelsuma madagascariensis (sundbergi) ladiguensis* – MEIER, Salamandra, **31** (1): 36.

1997 *Phelsuma sundbergi ladiguensis* – HALLMANN et al., Faszin. Taggeckos: 197; fig. 140.

Distribution: Several Seychelles Islands: La Digue, Félicité, Coco, Petite Soeur, Grande Soeur, Marianne (HALLMANN et al. 2008).

***Phelsuma sundbergi longinsulae* RENDAHL, 1939**

1939 *Phelsuma longinsulae* RENDAHL, Zool. Jb. Syst., **72**: 279. – Type locality: “Seychellen, Long Island.” – Syntypes: NRS 4002 (8 specimens). MERTENS (1966) listed SMF 60630 as syntype. DE LISLE et al. (2013: 197) erroneously listed ZMB 10456 as lectotype of this taxon (this number actually refers to the lectotype of *P. quadriocellata*).

1939 *Phelsuma pulchrum* RENDAHL, Zool. Jb. Syst., **72**: 280, fig. 6. – Type locality: – “Seychellen, Mahé Island, Port Victoria, Bel Air” (NRS 3997 and 3999); “Mahé Island, Port Victoria, Sans Souci” (NRS 3998). – Syntypes: NRS 3997 (4 specimens), 3998 (2 specimens), 3999 (4 specimens). – Synonymy fide LOVERIDGE 1942.

1939 *Phelsuma pulchrum cousinense* RENDAHL, Zool. Jb. Syst., **72**: 283. – Type locality: “Seychellen, Cousine Island”. – Syntypes: NRS 4001 (2 specimens).

1942 *Phelsuma madagascariensis longinsulae* LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 466.

1962 *Phelsuma abbotti longinsulae* MERTENS, Senckenb. biol., **43** (2): 86.

1962 *Phelsuma abbotti pulchra* MERTENS, Senckenb. biol., **43** (2): 87.

1966 *Phelsuma abbotti menaiensis* MERTENS, Senckenb. biol., **47** (2): 92. – Type locality: “Menai, Cosmoledo-Atoll” – Holotype: SMF 60086. – Synonymy fide KLUGE 1991.

1972 *Phelsuma longinsulae longinsulae* – BÖRNER, Revision gen. *Phelsuma*, **1**: 86.

1972 *Phelsuma longinsulae pulchra* – BÖRNER, Revision gen. *Phelsuma*, **1**: 87.

1981 *Phelsuma longinsulae menaiensis* CHEKE, Senckenb. biol., **62** (4/6): 188.

1983 *P[helsuma] s[undbergi] longinsulae* – THORPE & GIDDINGS, Herpetologica, **39** (4): 403; fig. 5e.

1984 *Phelsuma longinsulae umbrae* BÖRNER & MINUTH, J. Bombay Nat. Hist. Soc., **81** (2): 257. – Type locality: “Silhouette Island” (Seychelles) – Holotype: BSRC Geck 42 SC. – Synonymy fide GARDNER 1987.

1984 *Phelsuma longinsulae rubra* BÖRNER & MINUTH, J. Bombay Nat. Hist. Soc., **81** (2): 258. – Type locality: “North Island” (Seychelles) – Holotype: BSRC Geck 29 SC. – Synonymy fide GARDNER 1987.

1985 *P[helsuma] madagascariensis longinsulae* – THORPE, Biochem. Syst. Ecol., **13**: 64.

1986 [*Phelsuma sundbergi*] *longinsulae* – GARDNER, Biol. J. Linn. Soc., **29**: 236.

1987 *Phelsuma sundbergi longinsulae* – GARDNER, Zool. J. Linn. Soc., **91**: 98.

Distribution: Several Seychelles Islands: Mahé, Ste. Anne, Cerf, Round, Long, Cachée, Anonyme, Souris, Islette, Conception, Thérèse, Silhouette, North, Frégate, Bird, Cosmoledo and Remire (HALLMANN et al. 2008).

Comment: DE LISLE et al. (2013) considered the taxa *menaiensis*, *pulchra*, *rubra* and *umbrae* as valid subspecies of *P. longinsulae* without providing evidence. We therefore continue to consider all of them as synonyms of *P. s. longinsulae* (fide GARDNER 1987).

***Phelsuma vanheygeni* LERNER, 2004**

2004 *Phelsuma vanheygeni* LERNER, *Phelsuma*, **12**: 91. – Type locality: “near the village of Kongony, S 13°39’45.7”, E 48°04’23.7”, 50 m elevation, Ampasindava peninsula, Ambanja Fivondronana, Antsiranana Province, Madagascar.” – Holotype: RMCA 2004-34-R-1.

Distribution: Ampasindava peninsula in northwestern Madagascar (LERNER 2004).

Comment: Due to equivocal evidence not placed into any species group by ROCHA et al. (2010).

***Phelsuma v-nigra* (BOETTGER, 1913)**

Distribution: Comoros archipelago.

***Phelsuma v-nigra v-nigra* (BOETTGER, 1913)**

- 1913 *Phelsumia V-nigra* BOETTGER in VOELTZKOW, Reise Ostafrika, **3**: 337, Taf. 25, fig. 9. – Type locality: Moheli. – Lectotype: SMF 9562 (designated by MERTENS 1967).
1922 *Phelsumia V-nigrum* (sic) – MERTENS, Senckenberg. biol., **4**: 170.
1939 *Phelsuma v-nigrum* – RENDAHL, Zool. Jb. Syst., **72**: 267.
1942 *Phelsuma v-nigra* – LOVERIDGE, Bull. Mus. Comp. Zool., **89**: 464.
1972 *Phelsuma abbotti v-nigra* – BÖRNER, Revision gen. *Phelsuma*: 58.
1984 *Phelsuma v-nigra v-nigra* – MEIER, Salamandra, **20** (1): 33.

Distribution: Endemic to Moheli Island, Comoros (HAWLITSCHKE et al. 2011).

Comment: Placed in the *Phelsuma laticauda* group by ROCHA et al. (2010).

***Phelsuma v-nigra anjouanensis* MEIER, 1986**

- 1986 *Phelsuma v-nigra anjouanensis* MEIER, Salamandra, **22** (1): 15, fig. 3. – Type locality: “Mutsamudu, Anjouan” (Comoros). – Holotype: ZFMK 42077.
1995 *Phelsuma v-nigra mayottensis* BÖHME (nomen nudum), Salamandra, **31** (4): 251. – Synonymy fide RÖSLER 2000.
2000 [*Phelsuma*] *v-nigra anjouanensis* – RÖSLER, Gekkota, **2**: 103.

Distribution: Endemic to Anjouan Island, Comoros (HAWLITSCHKE et al. 2011).

***Phelsuma v-nigra comoraegrandensis* MEIER, 1986**

- 1986 *Phelsuma v-nigra comoraegrandensis* MEIER, Salamandra, **22** (1): 17, fig. 4. – Type locality: “Nioumadzaha, Grande Comore”. – Holotype: ZFMK 42067.
1998 *P[helsuma] v-nigra comorograndensis* – ANONYMOUS (ex errore), Elaphe, **6** (2): 68.

Distribution: Endemic to Grand Comoro Island, Comoros (HAWLITSCHKE et al. 2011).

Genus *Rhoptropella* HEWITT, 1937

- 1937 *Rhoptropella* HEWITT, Ann. Natal Mus., Pretoria, **8**: 200, pl. 12, figs. 1–7. – Type species: *Rhoptropus ocellatus* BOULENGER, 1885 (by monotypy).
1943 *Rhotropella* FITZSIMONS (ex errore), Liz. S. Afr., **1**: 121.
1947 *Rhoptropella* – LOVERIDGE, Bull. Mus. comp. Zool., **98**: 293.

Distribution: South Africa and Namibia.

***Rhoptropella ocellata* (BOULENGER, 1885)**

- 1885 *Rhoptropus ocellatus* BOULENGER, Ann. Mag. Nat. Hist., (5) **16**: 475. – Type locality: Cape Town, South Africa. – Holotype: BMNH 1946.8.28.4.
1887 *Rhoptropus ocellatus* – BOULENGER, Cat. Lizards Brit. Mus., **3**: 490.
1933 *Phelsuma ocellata* – SCHMIDT, Carnegie Mus., **22**: 9.
1937 *Rhoptropella ocellata* – HEWITT, Ann. Natal. Mus., **8**: 199, pl. xxii, figs. 1–7.
1938 *Rhotropella ocellata* – FITZSIMONS (ex errore), Ann. Transvaal Mus., **19**: 182.
1977 *Phelsuma ocellata* – RUSSELL, Zoologica Africana, **12** (2): 393.
1986 *Phelsuma (Rhoptropella) ocellata* – MUDDE, Inst. Taxonom. Zool.: 23; figs. 2, 13, 46, 67.
1999 *Rhoptropella ocellata* – RÖLL, Zoology, **102**: 50–60.

Distribution: Northwestern South Africa and south Namibia.

Comment: This species has often been included in the genus *Phelsuma* in the past decades. It is therefore protected by the CITES convention (Appendix II under “*Phelsuma* spp.”) and for this reason included in this checklist. Due to its external similarities, it can be easily confused with *Phelsuma* species. Its isolated systematic position and its placement in the monotypic genus *Rhoptropella* has been demonstrated by several studies (RÖLL 1999, AUSTIN et al. 2004).

Dubious name

Phelsuma inunguis (OPPEL, 1811)

- 1811 *Geck[o] inunguis* Oppel, Ordn. Famil. Gatt. Rept. Prod. Naturg., **24**. – Type locality: “Hispania” (= Spain, erroneous) fide RÖSLER & SCHMIDTLER (2014). – Type: Unknown, based on a painting.
- 1817 *G[ecko] inunguis* – Cuvier, Règne Anim., **2**: 46; pl. 5, fig. 3. – Type locality: “l’Isle-de-France” (= Mauritius). – Type specimen: Lost (fide DUMÉRIL & BIBRON 1836).
- 1820 *Gekko inunguis* – MERREM, Tent. Syst. Amph.: 43.
- 1825 *G[ecko] inunguis* – GRAY (ex errore), Ann. Philos., (2) **10**: 199.
- 1827 *Plat[ydactylus] (Phelsuma) inunguis* – GRAY, Philos. Mag., **2**: 55.
- 1830 *Anoplopus inunguis* – WAGLER, Natürl. Syst. Amph.: 142.
- 1843 *Anoplopus (Colobopus) inunguis* – FITZINGER, Syst. Rept., **1**: 99.
- 2012 *Phelsuma inunguis* – RÖSLER et al., Vertebr. Zool., **62** (3): 430; figs. 1–2.

Comment: This taxon is the second oldest available name attributed to the genus *Phelsuma* and its uncertain taxonomic identity is challenging the nomenclatural stability in this genus. The very short original species description, the absence of type material, and doubts on the type locality have hampered any unequivocal taxonomic interpretation of this taxon so far. In order to assure the nomenclatural stability in the genus *Phelsuma* it was suggested to request the suppression of *Gekko inunguis* by the ICZN. See RÖSLER et al. (2012) for detailed discussion.

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Table 1. Countries and political territories harbouring autochthonous or introduced species of *Phelsuma* and *Rhoptropella*.

* The continued presence is uncertain and in need of confirmation.

Country or territory	Endemic or autochthonous species	Introduced or presumably introduced species
Madagascar	<i>P. abbotti</i> , <i>P. antanosy</i> , <i>P. barbouri</i> , <i>P. berghofi</i> , <i>P. borai</i> , <i>P. breviceps</i> , <i>P. dorsivittata</i> , <i>P. dubia</i> , <i>P. flavigularis</i> , <i>P. gouldi</i> , <i>P. grandis</i> , <i>P. guttata</i> , <i>P. hielscheri</i> , <i>P. hoeschi</i> , <i>P. kely</i> , <i>P. klemmeri</i> , <i>P. kochi</i> , <i>P. laticauda</i> , <i>P. lineata</i> , <i>P. madagascariensis</i> , <i>P. malamakibo</i> , <i>P. masohoala</i> , <i>P. modesta</i> , <i>P. mutabilis</i> , <i>P. parva</i> , <i>P. pronki</i> , <i>P. pusilla</i> , <i>P. quadriocellata</i> , <i>P. ravenala</i> , <i>P. roesleri</i> , <i>P. seippi</i> , <i>P. serraticauda</i> , <i>P. standingi</i> , <i>P. vanheygeni</i>	<i>P. cepediana</i> *
Mauritius (including islands of Mauritius, Rodriguez and Agalega)	<i>P. cepediana</i> , <i>P. edwardnewtonii</i> (extinct), <i>P. gigas</i> (extinct), <i>P. guentheri</i> , <i>P. guimbeaui</i> , <i>P. ornata</i> , <i>P. rosagularis</i>	<i>P. grandis</i> (Mauritius), <i>P. laticauda</i> (Mauritius), <i>P. borbonica</i> ? (Agalega)
La Réunion Island (France)	<i>P. borbonica</i> , <i>P. inexpectata</i>	<i>P. astriata</i> , <i>P. grandis</i> , <i>P. laticauda</i>
Mayotte Island (France)	<i>P. nigristriata</i> , <i>P. pasteurii</i> , <i>P. robertmertensi</i>	<i>P. dubia</i> , <i>P. laticauda</i>
Union of the Comoros	<i>P. comorensis</i> , <i>P. v-nigra</i>	<i>P. laticauda</i> , <i>P. dubia</i>
Seychelles	<i>P. abbotti</i> , <i>P. astriata</i> , <i>P. sundbergi</i>	<i>P. laticauda</i>
India (Andaman Islands)	<i>P. andamanensis</i>	—
Tanzania	<i>P. parkeri</i>	<i>P. dubia</i>
Kenya	—	<i>P. dubia</i>
Mozambique	—	<i>P. dubia</i>
Florida (USA)	—	<i>P. dubia</i> *, <i>P. grandis</i> , <i>P. laticauda</i> , <i>P. standingi</i> *
Hawaii (USA)	—	<i>P. grandis</i> , <i>P. guimbeaui</i> , <i>P. laticauda</i>
French Polynesia (France)	—	<i>P. laticauda</i>
Namibia	<i>Rhoptropella ocellata</i>	—
South Africa	<i>Rhoptropella ocellata</i>	—

Table 2. Overview of the currently known *Phelsuma* and *Rhoptropella* species and their current IUCN Red List Status (as of 8 November 2014). Note that subspecies are generally not assessed separately by the IUCN and that several *Phelsuma* species from the Mascarene islands have not yet been assessed. LC = Least Concern; NT = Near Threatened; VU = Vulnerable; EN = Endangered; CE = Critically Endangered; EX = Extinct; DD = Data Deficient; NA = Not assessed. Redlist Criteria refer to Version 3.1 except for *P. guentheri* and *P. gigas* (Version 2.3).

Species name	CITES Appendix	IUCN Redlist Classification	Redlist Criteria	Year Assessed
<i>Phelsuma abbotti</i>	II	LC	—	2011
<i>Phelsuma andamanensis</i>	II	LC	—	2009
<i>Phelsuma antanosy</i>	II	CR	B1ab(ii,iii) + 2ab(ii,iii)	2011
<i>Phelsuma astriata</i>	II	LC	—	2006
<i>Phelsuma barbouri</i>	II	LC	—	2011
<i>Phelsuma berghofi</i>	II	NT	—	2010
<i>Phelsuma borai</i>	II	DD	—	2011
<i>Phelsuma borbonica</i>	II	NA	—	—
<i>Phelsuma breviceps</i>	II	VU	B1ab(iii)	2011
<i>Phelsuma cepediana</i>	II	LC	—	2011
<i>Phelsuma comorensis</i>	II	LC	—	2009
<i>Phelsuma dorsivittata</i>	II	NT	—	2011
<i>Phelsuma dubia</i>	II	NA	—	—
<i>Phelsuma edwardnewtonii</i>	II	NA (but EX)	—	—
<i>Phelsuma flavigularis</i>	II	EN	B1ab(iii)	2011
<i>Phelsuma gigas</i>	II	EX	—	1996
<i>Phelsuma gouldi</i>	II	DD	—	2011
<i>Phelsuma grandis</i>	II	LC	—	2010
<i>Phelsuma guentheri</i>	II	EN	D	1996
<i>Phelsuma guimbeaui</i>	II	NA	—	—
<i>Phelsuma guttata</i>	II	LC	—	2011
<i>Phelsuma hielscheri</i>	II	VU	B1ab(iii)	2011
<i>Phelsuma hoeschi</i>	II	DD	—	2011
<i>Phelsuma inexpectata</i>	II	NA	—	—

Table 2 continued.

Species name	CITES Appendix	IUCN Redlist Classification	Redlist Criteria	Year Assessed
<i>Phelsuma kely</i>	II	DD	—	2011
<i>Phelsuma klemmeri</i>	II	EN	B1ab(iii)	2011
<i>Phelsuma kochi</i>	II	LC	—	2011
<i>Phelsuma laticauda</i>	II	LC	—	2011
<i>Phelsuma lineata</i>	II	LC	—	2011
<i>Phelsuma madagascariensis</i>	II	LC	—	2011
<i>Phelsuma malamakibo</i>	II	NT	—	2011
<i>Phelsuma masohoala</i>	II	CE	B1ab(iii) + 2ab(iii)	2011
<i>Phelsuma modesta</i>	II	LC	—	2011
<i>Phelsuma mutabilis</i>	II	LC	—	2009
<i>Phelsuma nigristriata</i>	II	VU	D2	2011
<i>Phelsuma ornata</i>	II	VU	—	—
<i>Phelsuma parkeri</i>	II	NA	—	—
<i>Phelsuma parva</i>	II	LC	—	2011
<i>Phelsuma pasteuri</i>	II	NT	—	2011
<i>Phelsuma pronki</i>	II	CE	B1ab(iii)	2009
<i>Phelsuma pusilla</i>	II	LC	—	2011
<i>Phelsuma quadriocellata</i>	II	LC	—	2011
<i>Phelsuma ravenala</i>	II	LC	—	2011
<i>Phelsuma robertmertensi</i>	II	EN	B1ab(iii) + 2ab(iii)	2011
<i>Phelsuma roesleri</i>	II	EN	B1ab(iii)	2011
<i>Phelsuma rosagularis</i>	II	NA	—	—
<i>Phelsuma seippi</i>	II	EN	B1ab(iii)	2011
<i>Phelsuma serraticauda</i>	II	EN	B1ab(v)	2011
<i>Phelsuma standingi</i>	II	VU	B1ab(iii,v)	2009
<i>Phelsuma sundbergi</i>	II	LC	—	2006
<i>Phelsuma vanheygeni</i>	II	EN	B1ab(iii)	2011
<i>Phelsuma v-nigra</i>	II	LC	—	2009
<i>Rhoptropella ocellata</i>	II	NT	—	1996

