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**EVOLUTION AND EXTINCTION OF WEST INDIAN SKINKS (SCINCIDAE)**

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## ABSTRACT

Lizards of the family *Scincidae* (skinks) belonging to the genus *Mabuya* are distributed throughout the New World. All are smooth-scaled and have an eyelid window, and most are darkly colored with pale stripes. Researchers have had difficulty finding diagnostic characters to distinguish species, leading to taxonomic confusion for nearly two centuries. Five species are currently recognized on islands in the West Indies (Caribbean), and more are found throughout Central and South America. Analyses of their evolutionary history have been limited both morphologically and phylogenetically in the past. The current research project was conducted to develop a better understanding of the systematics of Caribbean island *Mabuya*.

Morphological analyses were performed on over 700 museum specimens of *Mabuya* from Caribbean islands and Central and South America. Both conventional and unconventional characters were scored and included body proportions, scalation, and pattern. Molecular data were collected from three mitochondrial genes (12S ribosomal RNA, 16S ribosomal RNA, and cytochrome b) and one nuclear gene (myosin heavy chain), and maximum likelihood analyses were performed. Based on morphological and molecular phylogenetic results, 33 species were identified throughout the Caribbean islands, 26 of which are found—or were found—in the West Indies (the West Indies include most Caribbean islands, except those off of Central and South America, such as Trinidad and Tobago). In many cases, the species identified are endemic to single islands.

Unfortunately, skinks in this area have decreased drastically in numbers in recent years. Because so many species were unrecognized for centuries, conservation efforts for *Mabuya* have been minimal. These lizards, including entire species, are now completely absent—extinct—from some islands due to both human activity and predation. Further research should focus on

the protection of remaining *Mabuya* species throughout the Caribbean islands. Additionally, as evidence for the presence of unrecognized species in Central and South America was observed, morphological and phylogenetic studies should be conducted to resolve their systematics.

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## INTRODUCTION

### **Biogeography of the West Indies**

The West Indies is a group of islands in the Caribbean sea, including the Greater Antilles, the Lesser Antilles, and the Bahamas. Although some additional islands in the area are also part of the West Indies, Trinidad, Tobago, and islands near the South and Central American mainland are excluded. A high level of endemism exists among vertebrates from this group of islands; about 5% of all currently living terrestrial vertebrate species are found in the West Indies.

Several models have been proposed to account for the biodiversity of these islands. One early model used land bridges between islands to account for the distribution of species, but the presence of deep water around many of the islands rules out this hypothesis (Hedges, 1996). The vicariance theory proposes that West Indies was once continuous with North and South America and that the islands moved tectonically to their current locations. However, the divergence times of nearly all West Indian species are too recent for the vicariance model. The absence of some major animal groups (e.g., carnivores, salamanders, etc.) in the West Indies, the size extremes of different species found throughout the islands, and the diversity of species divergence times all provide evidence for over-water dispersal (Hedges, 2006). Because of ocean currents, organisms usually reach the West Indies from South America (Hedges, 2006a).

Species in the West Indies face a number of different threats that have resulted in the endangerment and extinction of a large number of organisms. Farming has transformed the land, destroying habitat through deforestation. The introduction of predators for agricultural purposes has had an enormous impact on West Indian biodiversity, and the mongoose stands out as one of the most destructive introduced species. Because of these threats, many recognized and

unrecognized species have disappeared completely from the islands, and the survival of many more is uncertain (Ricklefs and Bermingham, 2008).

### **The Genus *Mabuya***

The genus *Mabuya* Fitzinger 1826 comprises of lizards belonging to the family Scincidae and found only in the New World. The family itself is quite diverse, occurring all over the world in a variety of habitats. More commonly known as skinks, Scincid lizards are usually smooth-scaled with long bodies and short limbs and tails (Bellairs, 1957). Although at one time the genus *Mabuya* was thought to exist in Asia, Africa, and Madagascar, it has since been restricted to the Western hemisphere (Miralles et al., 2009). *Mabuya* are currently found throughout Central and South America and the Caribbean islands.

The genus *Mabuya* has had confusing taxonomy for over a hundred years. In 1862, a herpetologist studying Caribbean island skinks noted, “the history of the America *Mabuia* is in a state of some confusion, probably on account of the want of close observation in the discrimination of the species” (Cope, 1862a). The type species of the genus, *M. mabouya*, was discovered on Martinique and named in 1789 (Bonnaterre, 1789). The holotype of *M. mabouya* was lost shortly thereafter, exacerbating the taxonomic confusion within the genus (Dunn, 1936; Avila-Pires, 1995; Mayer and Lazell, 2000).

A second species, *M. sloanii*, from St. Thomas was named in 1803. It was distinguished from *M. mabouya* by its stripes, but its diagnosis was based on the examination of one specimen. The discoverer of *M. sloanii* provided no information in his description on the museum number or locality of the holotype (Daudin, 1803), leading to additional confusion. Nevertheless, throughout the nineteenth and early twentieth century, seven additional species were recognized in the West Indies. Two more were found on islands elsewhere in the Caribbean. Four from the

Greater Antilles were named, beginning with *M. spilonotae* in 1838 (Wiegmann, 1838). This description was based on two specimens, and after the loss of one of them, assigning a locality to the species became impossible. Later, *M. fulgida* was named from Jamaica (Cope, 1862).

Although this species had been mentioned more than a century earlier, it was confused with other taxa for many years (Sloane, 1725). Later, two additional Greater Antillean species were discovered, including *M. nitida* from Puerto Rico (Garman, 1887). *Mabuya lineolata* was later discovered on Hispaniola. It was noted for its pattern of pin stripes, which differs strikingly from other species in the genus (Noble et al., 1933).

In the Lesser Antilles, *M. lanceolata* was discovered on Barbados (Cope, 1862b). Incomplete and inaccurate collection information led to confusion regarding the locality of this species. After *M. lanceolata* was placed in Dunn's synonymy, another *Mabuya* collector questioned the existence of *Mabuya* on Barbados, doubting that the genus was ever found on that island (Grant, 1959). *Mabuya metallica* was identified on Martinique based on the examination of three specimens, (Bocourt, 1879) although only one is known today (Brygoo, 1985), and two are presumably lost. *Mabuya dominicana* was found on Dominica (Garman, 1887), although shortly thereafter another herpetologist reported wide morphological variation within the species and synonymized it with another species from the Caribbean islands (Günther, 1888). Finally, *M. luciae* was discovered on St. Lucia (Garman, 1887).

Outside of the West Indies, two *Mabuya* species were recognized on other Caribbean islands. *Mabuya aenea* was named from St. Vincent (Gray, 1831), and *M. pergravis* was discovered on Old Providence Island (Barbour, 1921). By the mid-1930s, 11 *Mabuya* species were recognized on Caribbean islands, and nine of them occurred in the West Indies.

In 1936, another herpetologist scored 11 morphological characters in Caribbean island *Mabuya*. Based on his observations, he concluded that morphological variation observed by other researchers represented polymorphism and that very few Caribbean island *Mabuya* species actually existed. He lumped the 11 species into three, two of which inhabited West Indian islands. According to his revision, *M. lineolata* was restricted to Hispaniola, *M. mabouya* was found throughout most of the West Indies, and *M. pergravis* occurred on Isla de Providencia off of Nicaragua (Dunn, 1936). He recognized two subspecies throughout the West Indies, *M. mabouya sloanii* in the Greater Antilles and *M. mabouya mabouya* in the Lesser Antilles, as well as additional Central and South American species. However, because two of the three Caribbean island species he recognized were each only found on one island, most of the previously recognized species from the West Indies were lumped into one species (*M. mabouya*).

In recent years, some limited taxonomic work has been done on the genus. Approximately 26 species are now recognized within the genus (Miralles & Carranza, 2010), which was restricted to the New World in 2002 (Mausfeld et al., 2002). Molecular analyses have made many of these revisions possible (Mausfeld et al., 2002; Carranza & Arnold, 2003; Miralles, 2006b; Vrcibradic et al., 2006; Whiting et al., 2006; Miralles, Chaparro et al., 2009; Miralles, Rivas et al., 2009; Miralles & Carranza, 2010). All of the phylogenetic analyses conducted on the genus have used mitochondrial DNA, most commonly 12S ribosomal RNA (rRNA) and cytochrome b (cyt b). Additionally, some studies have incorporated 16s rRNA. Another study used four nuclear genes, including C-mos (a proto-oncogene), alpha-enolase (Enol), glyceraldehyde-3-phosphate dehydrogenase (Gapdh), and myosin heavy chain 2 (MYH2) (Whiting et al., 2006).



Although these revisions have involved Central and South American *Mabuya*, several new species have been named from the West Indies and other Caribbean islands. Other species from Dunn's synonymy were resurrected. Currently, nine species are recognized on Caribbean islands, and five of them occur in the West Indies. *M. sloanii* was resurrected a valid species and is now thought to occur throughout northern Antillean islands, and *M. mabouya* is now recognized in several islands in the southern Lesser Antilles (Miralles, 2005). In 2000, *M. macleani* was named from Carrot Rock in the British Virgin Islands (Mayer and Lazell, 2000). Outside of the West Indies, *M. nigropunctata* and *M. falconensis* are currently recognized on Trinidad and Tobago (Miralles and Carranza, 2010). *Mabuya berengeriae* was described from San Andrés Island in 2006 (Miralles, 2006).

Despite the recent taxonomic work on the genus, lizards of the genus *Mabuya* have been disappearing from islands throughout the Caribbean. About one-third of these species have not been seen in recent years, and many may already be extinct. The introduction of the mongoose has played a large part in the decline of *Mabuya* throughout the West Indies, as have other predators like rats. On St. Lucia, the mongoose has preyed upon numerous reptile species, and *M. luciae* was thought to be extinct as early as 1937 (Barbour, 1937; Corke, 1987, 1992). The same year, *M. mabouya* was said to have disappeared completely from Martinique, another island where the mongoose lives (Barbour, 1937). In 1940, the impact of the mongoose on *Mabuya* in Jamaica, where *M. fulgida* was originally identified, was discussed by a herpetologist in the Caribbean. He wrote, "this genus and *Alsophis*, throughout the Antilles where the writer has collected, has suffered from the mongoose more than any other reptiles" (Grant, 1940). The mongoose is present on other Caribbean islands where *Mabuya* are found, and this introduced predator continues to affect the skinks where they can still be found today.

Habitat destruction has also played a part in the disappearance of Caribbean Island skinks, both inside out outside the West Indies. Throughout the twentieth century, different researchers believed that skinks were completely absent from Barbados (Barbour, 1937; Underwood, 1963). Although their claims have never been confirmed, Barbados is one of the world's ten most densely populated countries (World Resources Institute, 2008), making habitat loss inevitable. On San Andrés Island, extensive deforestation has made the endangerment or extinction of *M. berengerae* very likely (Miralles, 2006). *Mabuya pergravis*, a tree-dwelling species (Dunn and Saxe, 1950), has lost much of its habitat to farming (World Wildlife Fund, 2007). Other island populations, as well as skinks in Central and South America, have suffered from environmental damage.

Early phylogenetic analyses showed us great genetic diversity within sequences believed to belong to the same *Mabuya* species. This current study was conducted to morphologically and phylogenetically analyze *Mabuya* from the West Indies in order to assess their conservation status and identify unrecognized species. Although the goal was not to revise the taxonomy of the entire genus, the results show that many more *Mabuya* species are present in the West Indies than are currently recognized (these are being described in a separate article; Hedges and Conn, in preparation). By identifying them and explaining the recent disappearances of *Mabuya* throughout the Caribbean islands, we have illustrated the need for greater conservation efforts for the genus.

## MATERIALS AND METHODS

### Morphological analyses

We borrowed every Caribbean island *Mabuya* specimen that we could locate in museums, except for some well-represented species (such as one from Turks & Caicos). We also borrowed specimens from Central and South America since species occurring there are also believed to exist on Caribbean islands. We used specimens from 50 different species – or photographs of them – in our morphological analyses, and we examined specimens from every Caribbean island where skinks have been known to exist.

Museum abbreviations are AMNH (American Museum of Natural History, New York, New York, USA), ANSP (Academy of Natural Sciences, Philadelphia, Pennsylvania, USA), BMNH (Natural History Museum, London, England, UK), CAS (California Academy of Sciences, San Francisco, California, USA), CM (Carnegie Museum of Natural History, Pittsburgh, Pennsylvania, USA), FMNH (Field Museum of Natural History, Chicago, Illinois, USA), KU (University of Kansas, Museum of Natural History, Lawrence, Kansas, USA), LSUMZ (Louisiana State University Museum of Zoology, Baton Rouge, Louisiana, USA), MCZ (Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, USA), MCZF (Museum of Comparative Zoology Field Series, Harvard University, Cambridge, Massachusetts, USA), MHNLS (Museo de Historia Natural La Salle, Caracas, Venezuela), MNHN (Muséum National d'Histoire Naturelle, Paris, France), MPM (Milwaukee Public Museum, Milwaukee, Wisconsin, USA), PSM (Slater Museum of Natural History, University of Puget Sound, Tacoma, Washington, USA), SBH (Frozen tissue collection, S. Blair Hedges, Pennsylvania State University, Pennsylvania, USA; vouchers deposited in USNM), SMNS (Staatliches Museum für Naturkunde Stuttgart, Stuttgart, Germany), TCWC (Texas Cooperative

Wildlife Collection, Texas A&M University, College Station, Texas, USA), UF (Florida Museum of Natural History, University of Florida, Gainesville, Florida, USA), UIMNH (University of Illinois, Museum of Natural History, Champaign, Illinois, USA), UMMZ (University of Michigan Museum of Zoology, Ann Arbor, Michigan, USA), UPRRP (Museum of Biology, University of Puerto Rico, San Juan, Puerto Rico, USA), USNM (National Museum of Natural History, Washington, D.C., USA), YPM (Yale Peabody Museum, New Haven, Connecticut, USA), ZFMK (Zoologisches Forschungsinstitut und Museum A. Koenig, Bonn, Germany), ZMB (Museum für Naturkunde, Berlin, Germany), and ZMH (Zoologisches Museum Hamburg, Germany).

We primarily scored 26 morphological characters that included body proportions, scalation, and pattern and coloration. To analyze body proportions, we measured snout-to-vent length (SVL), head length (HL), head width (HW), snout width (SW), ear length (EL), and fourth toe length (T4L). When we scored these characters, we found ratios of measurements to SVL in order to obtain consistent results. In this way, we could compare skinks of different sizes to one another. Body proportions in skinks are negatively allometric, meaning that the largest individuals often have the proportionately smallest structures. For this reason, we omitted juveniles from our analyses of body proportions.

We counted 12 sets of scales and scored presence or absence of contact between five pairs of scales. Head scalation was particularly useful in diagnosing species, but we also scored body scalation. Midbody scales were counted around the body approximately halfway between the forelimbs and the hind limbs. Dorsals were counted in a longitudinal row, beginning with the first scale posterior to the parietal and ending above the vent. Ventrals were counted from the mental scale to the vent. Lamellae, the flat scales beneath the fingers and toes, were counted

from the base of to the tip of the digit. On the head, presuboculars, frontoparietals, supraoculars, supraciliaries, labials below eye, and nuchal rows were counted. Presence or absence of contact was scored between the first supraciliary and the prefrontal, the two supranasals, the two prefrontals, the first supraocular and the frontal, and the two parietals. Where contact was present, some scale pairs were in point contact, while others were in broad contact. However, no distinction was made between the two types of contact.

Analyses of pattern and coloration required both quantitative and qualitative data. We measured dorsolateral dark stripe width (DLDS W) and middorsal stripe width (MS W), and in some cases, we scored presence or absence of dorsolateral pale stripes, lateral pale stripes, and ventrolateral pale stripes. In most cases, stripes were measured at a point even with the ear opening. We described palms and soles as either dark or pale, comparing them to the color of the limbs. Due to the age and state of preservation of some specimens, however, these characters were occasionally difficult to score. In a few cases, embryos inside poorly preserved specimens retained their original pattern and coloration because they had not been exposed to light. These embryos were particularly useful in cases where species were represented by only one poorly preserved museum specimen.

Some of the characters we analyzed are classical and have been used by herpetologists for centuries. We found these to be occasionally helpful in diagnosing species. More often, we turned to new, unconventional characters to show non-overlapping morphological differences between species. For example, instead of simply counting head scales, we measured their dimensions, finding some species to have proportionately larger scales than others. Rather than just recording dorsolateral dark stripe width, we made a graph of middorsal stripe width versus dorsolateral dark stripe width (Fig. 3), helping us to diagnose morphologically similar species.

Additionally, in order to rule out polymorphism, we examined embryos from as many species as possible. In all cases, we found that they were consistent in pattern and coloration with adults from the same species.

### **Molecular analyses**

We assembled a DNA sequence set consisting of three mitochondrial genes (12S rRNA, 16S rRNA, and cyt b) and one nuclear gene (myosin) from 132 individual skinks. Of the 528 total sequences analyzed, 84 were new to this study, and the remainder were obtained from the earlier studies noted above, now deposited in Genbank (Appendix I). Maximum likelihood (ML) analyses were performed using MEGA 5 (Kumar et al., 2008). The GTR+I+G (general time reversible + invariants + gamma) model of evolution was used. All parameters were estimated by the programs during the runs. Gaps were treated as missing data.

## RESULTS AND DISCUSSION

### Morphological results

Morphological analyses of 20 of the 26 currently recognized *Mabuya* species showed a large degree of diversity within West Indian species (Table 1). Based on our data, we found that 26 species occur in the West Indies alone, and an additional seven species come from other islands in the Caribbean. Although some new taxa could be diagnosed by conventional characters alone, the unconventional characters proved to be the most useful in diagnoses, especially for closely related species. These included frontonasal width versus length, suture lengths between supraocular scales and supraciliaries, supranasal length versus width, snout width versus head length, supraciliary-2 versus supraciliary-3 length, limb (arm+leg) length, eyelid window length, supraciliary-1 length, dorsolateral dark stripe width versus middorsal stripe width, interparietal width, toe length, ear height, internarial distance, nostril width versus nostril length, head scales length (posterior of rostral to posterior of parietals), and rostral height versus rostral length.

Skinks in the Greater Antilles and the Bahamas, as well as those found on Anguilla and St. Barts, can be distinguished from skinks in the Lesser Antilles by the presence of dorsolateral dark stripes. These stripes are absent in *Mabuya* in all of the Lesser Antilles (except Anguilla and St. Barts) and on other Caribbean islands. Skinks throughout the Greater Antilles and the Bahamas, as well as Anguilla and St. Barts, have these stripes, with the exception of one species on Hispaniola. Because of this diagnostic character, *Mabuya* in the Bahamas, the Greater Antilles, Anguilla, and St. Barts were compared with one another in one analysis. *Mabuya* throughout the rest of the Lesser Antilles were compared in a second analysis.

### ***The Bahamas, the Greater Antilles, Anguilla, and St. Barts***

Most species of *Mabuya* with dorsolateral dark stripes (found throughout the Bahamas, the Greater Antilles, Anguilla, and St. Barts) form a group distinguished from all other Caribbean island *Mabuya* by their pattern. They are also diagnosable from one another by pattern and coloration. New species 11 (*N. sp. 11*) from Anegada in the British Virgin Islands differs from all others within this group by the combination of a higher dorsolateral dark stripe/middorsal stripe width ratio (Figure 3), virtually no pattern posterior to the dorsolateral dark stripes (Figure 2), a pale middorsal stripe, and a short, wide nostril. New species 12 (*N. sp. 12*) from the Caicos Islands, Turks and Caicos, differs from all other species in this group by having a small adult SVL; fewer supralabial scales; intermediate numbers of midbody, dorsal, and ventral scales; a wide middorsal stripe (Figure 3); a short and discontinuous lateral dark stripe; and distinct dorsal spots posterior the dorsolateral dark stripes (Figure 2). New species 13 (*N. sp. 13*) from Culebra is separated from all others in this group by having a large maximum adult SVL, large head scales (Figure 1), a short and high rostral scale, no prefrontal contact, wide and straight dorsolateral dark stripes, and dorsal spots posterior to the dorsolateral dark stripes. New species 14 (*N. sp. 14*) from the Dominican Republic differs from others within its group by having a small ear, a high number of dorsal and ventral scales, a short fourth toe, and a dorsolateral dark stripe of intermediate width (Figure 3). New species 15 (*N. sp. 15*) comes from St. Martin and is separated from all others within this group of islands by having a large ear, a small head, a low frequency of supranasal contact, a low number of suproacular scales, a high number of midbody and ventral scales, a high number of finger-4 lamellae, a narrow dorsolateral dark stripe, and a wide middorsal stripe (Figure 3). New species 16 (*N. sp. 16*) from Mona is distinguished from all others in this group of species by having a long head, large ear, a long



rostral scale, a wide and straight dorsolateral dark stripe, a narrow middorsal stripe (Figure 3), and long lateral dark stripes. New species 17 (*N. sp. 17*) occurs on Monito and differs from all others within this group by having dorsolateral dark stripes that bow inward on the parietal scales (Figure 2). New species 18 (*N. sp. 18*) from Anguilla and St. Barts is separated from all other species on these islands by having a large ear, an intermediate number of ventral scales, a high number of midbody scales, a narrow dorsolateral dark stripe and a wide middorsal stripe (Fig. 3), long dorsolateral stripes with dorsal spots, and no lateral pale stripes (Fig. 2). Finally, new species 19 (*N. sp. 19*) is separated from all other species in this group of islands by having few midbody scales, an intermediate number of dorsal and ventral scales, narrow dorsolateral dark stripes, and a wide middorsal stripe (Fig. 3), a long lateral dark stripe, and pale palms and soles.

Additionally, previously recognized species now in the synonymy of *M. sloanii* are valid. *Mabuya fulgida* differs from all other species in this group by having a high number of supraciliary scales, a low number of dorsals and ventrals, narrow dorsolateral dark stripes, a wide middorsal stripe (Fig. 3), and distinct dorsolateral pale stripes that extend to the tip of the snout. *Mabuya nitida* is separated from other species by having a large maximum adult SVL; a large head; an intermediate number of midbody scales; a low number of supraciliaries; an intermediate number of finger-4 and toe-4 lamellae; short, straight, and narrow dorsolateral dark stripes; a wide middorsal stripe (Fig. 3); and long lateral dark stripes. *Mabuya semitaeniata* (Wiegmann, 1837) is found throughout the British Virgin Islands (except Anegada), and it differs from other species in this group of islands by having a long and narrow nostril, small head scales, and wide dorsolateral dark stripes (measured at the ear and the forelimb). Finally, *M. spilonotus* is separated from other species in this group by having a high number of midbody scales, narrow

dorsolateral dark stripes, a wide middorsal stripe (Fig. 3), and a lateral pale stripe continuous to the hind limbs.

### ***The Lesser Antilles***

Skinks throughout the Lesser Antilles (except Anguilla and St. Barts) and other Caribbean islands generally lack dorsolateral dark stripes. Those on Dominica, Guadeloupe, and Montserrat, as well as the species without dorsolateral dark stripes from Hispaniola and *M. mabouya* from Martinique, differ from those on other Caribbean islands by having (usually) three suprooculars, four supraciliaries, and parietal contact. New species 4 (*N. sp. 4*) on Guadeloupe is currently recognized as *M. mabouya*. However, it can be distinguished from all other species on these islands by lacking dorsolateral dark stripes by its short frontonasal scale. New species 5 (*N. sp. 5*) is found on Hispaniola, and it is distinguished from all others in this group by having a long supraciliary-2 scale and a long frontonasal scale. New species 6 (*N. sp. 6*) from Montserrat differs from all other species on these islands by having a short frontonasal scale.

Skinks on the island of Marie Galante, as well as a formerly recognized species from Martinique (*M. metallica*), can be separated from all other Caribbean Island skinks by their intermediate number of dorsal scales, their low number of finger-4 and toe-4 lamellae, their high number of supraciliaries, and their lack of dorsolateral dark stripes. New species 7 (*N. sp. 7*) from Marie Galante differs from *M. metallica* by having a higher number of supralabial scales, a larger head, and supraciliary-1/prefrontal contact.

Skinks from St. Vincent, the Grenadines, Grenada, Trinidad, Tobago, Redonda, and Margarita form a clade based on their parietal separation and their low numbers of dorsal and ventral scales. The skinks with these characteristics on St. Vincent, the Grenadines, Grenada,

Trinidad, and Tobago are currently considered to be *M. nigropunctata*; however, these skinks have a narrower frontonasal scale, a shorter supraocular-2 scale, and no supranasal contact. Therefore, they represent a new species (*N. sp. 1*). They differ from the skinks on Redonda and Margarita in a number of different characters. These include a lower number of ventral scales, short fourth toes, small ears, and no contact between the first pair of chin shields and the infralabials. New species 2 (*N. sp. 2*) from Redonda differs from all other species in this group by having a large ear and a narrow frontonasal scale. New species 3 (*N. sp. 3*) from Margarita is distinguished by its high maximum adult SVL (making it the largest species in the genus), its high number of ventral scales, and its chin spotting.

Finally, skinks from Central America and its peripheral islands, as well as some skinks from St. Vincent, the Grenadines, Grenada, Trinidad, and Tobago can be distinguished from all other *Mabuya* species. Their unique characteristics include a dark lateral stripe bordered below by a narrow pale stripe and a plain dorsum with no striping. Although all skinks in Central America are currently considered to be *M. unimarginata*, we found two previously recognized species to be valid. *M. brachypoda* (Taylor, 1956) differs from other species in this group by its limb length and its chin shield configuration. We also found *M. alliacea* (Cope, 1876) to be a valid species based on its dorsal striping. New species 8 (*N. sp. 8*) from St. Vincent, the Grenadines, Grenada, Trinidad, and Tobago is currently believed to be *M. falconensis*. However, it differs from that South American species by having shorter fourth toes. It is distinguished from all other species in this group by having an intermediate number of midbody scales, short limbs, large eyelid windows, and a weak or absent standard stripe pattern (Fig. 2). New species 9 (*N. sp. 9*) comes from Great Corn Island and differs from all other species in this group by having a long fourth toe and long limbs. Finally, new species 10 (*N. sp. 10*) comes from Roatan, Honduras.

From all other species in this group, it is separated by having a small eyelid window and a small first supraciliary scale.

Sympatry (coexistence of two or more species) occurs on Hispaniola, on Martinique, and on St. Vincent, Grenada, the Grenadines, Trinidad, and Tobago. On Hispaniola, three *Mabuya* species have evolved to fill different ecological niches. They are morphologically distinct in scalation, in pattern, and in size. *Mabuya lineolata* is the smallest of the three species on Hispaniola. *M. n. sp. 14* is intermediate in size, and *M. n. sp. 5* is the largest (Table 1). *Mabuya mabouya* and *M. metallica*, two morphologically distinct species, have both been recognized from Martinique. Unfortunately, *M. metallica* is known from only one museum specimen, so its evolutionary history is more difficult to analyze. Finally, *M. n. sp. 1* and *M. n. sp. 8* both occur on St. Vincent, Grenada, the Grenadines, Trinidad, and Tobago. Although *M. n. sp. 1* is currently recognized as *M. nigropunctata*, and *M. n. sp. 8* is believed to be *M. falconensis*, the two are currently recognized as separate species.

### **Phylogenetic analyses**

The maximum likelihood tree (Fig. 4) shows 13 clades of *Mabuya* from Caribbean islands and Central and South America. Evidence for speciation is shown in the clade containing species from the Bahamas, the Greater Antilles, Anguilla, and St. Barts. *Mabuya lineolata* and *M. macleani* have already been diagnosed as valid species based on morphological and phylogenetic data. Currently, *M. fulgida*, *M. semitaeniata*, *M. n. sp. 12*, *M. n. sp. 13*, *M. n. sp. 17*, and *M. n. sp. 18* are considered to be *M. sloanii*. However, this tree shows *M. macleani* to be more closely related than *M. n. sp. 12*, *M. n. sp. 18*, and *M. fulgida* to *M. sloanii*. Additionally, it shows *M. sloanii* to be more closely related to *M. lineolata* than to either *M. n. sp. 18* or *M.*

*fulgida*. These relationships provide evidence for the existence previously recognized and unrecognized species within the *M. sloanii* synonymy.

Because of a lack of available DNA sequences, only one *Mabuya* species from the Lesser Antilles is represented in this tree. Although evolutionary relationships among Lesser Antillean species cannot be resolved by phylogenetic analyses here, this tree provides information about dispersal events. For example, *M. dominicana* is more closely related to South American *Mabuya* than it is to other West Indian species. This relationship indicates that at least two dispersal events brought *Mabuya* to the West Indies, one populating the northern islands and one populating the Lesser Antilles.

Additional dispersal events to Caribbean islands outside of the West Indies occurred, as well. At least two dispersals brought *Mabuya* to St. Vincent, Grenada, the Grenadines, Trinidad, and Tobago. *M. n. sp. 1* and *M. n. sp. 8* are sympatric on these islands. Each species is morphologically distinct, and each is more closely related to South American species than to one another. The tree shows that some South American *M. nigropunctata* are more closely related to *M. n. sp. 1* than to other *M. nigropunctata*. This result suggests that additional species may exist in South America.

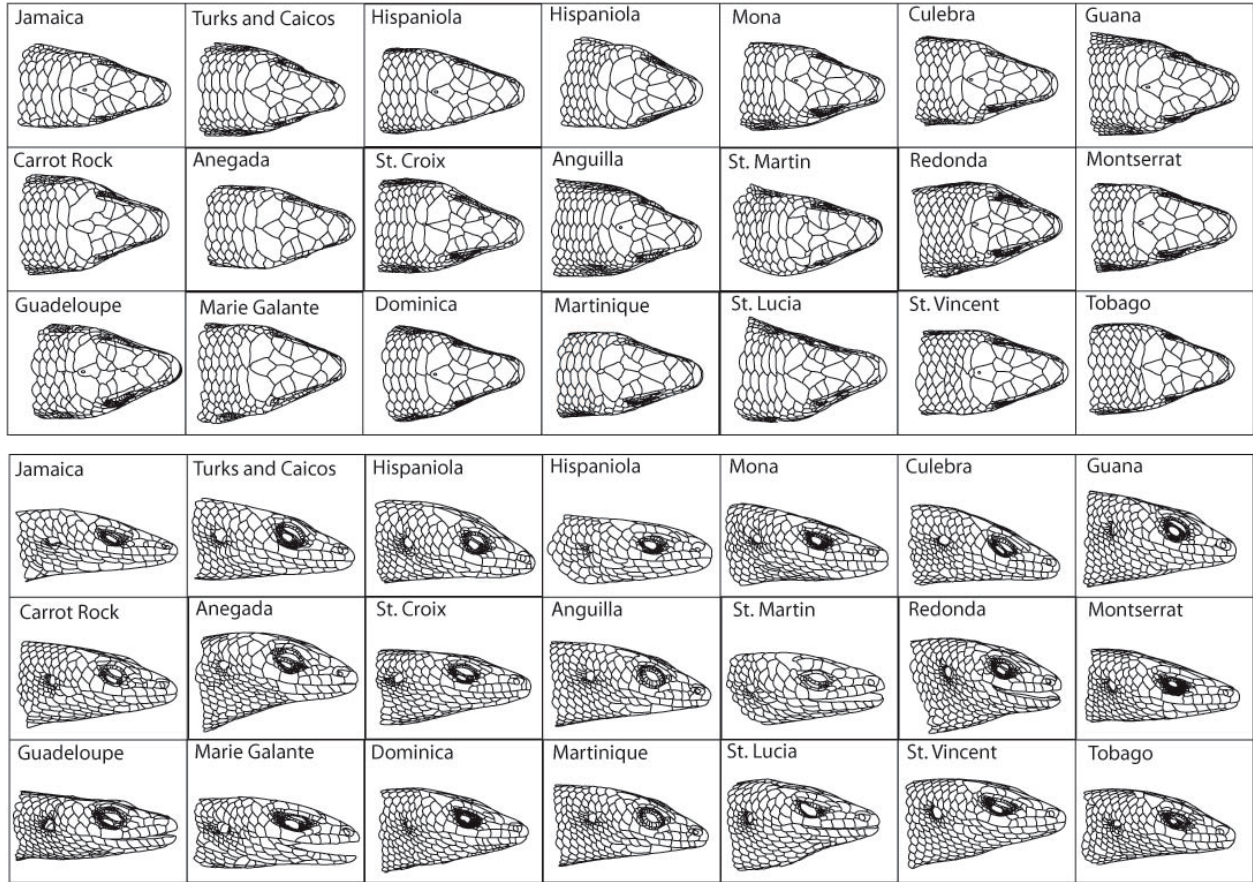
## **Conclusions**

In all, 19 new species were discovered on Caribbean islands. A manuscript describing these species is being prepared (Hedges and Conn, in preparation). Unfortunately, skinks have not been seen on many of these islands in decades. Because of the abundance of predators throughout the West Indies and widespread deforestation on Caribbean islands, there is concern for the survival of many *Mabuya* species. Because so many species have been unrecognized for many years, conservation efforts for these skinks have been minimal. Due to the long-held belief

that *M. mabouya* was widespread on Caribbean islands, the disappearances of skinks from different islands were not seen as potential extinction events. We know now that many *Mabuya* species are found on only one island, and roughly one-third of them may already be extinct. Recognition of the species that remain is crucial to their survival.

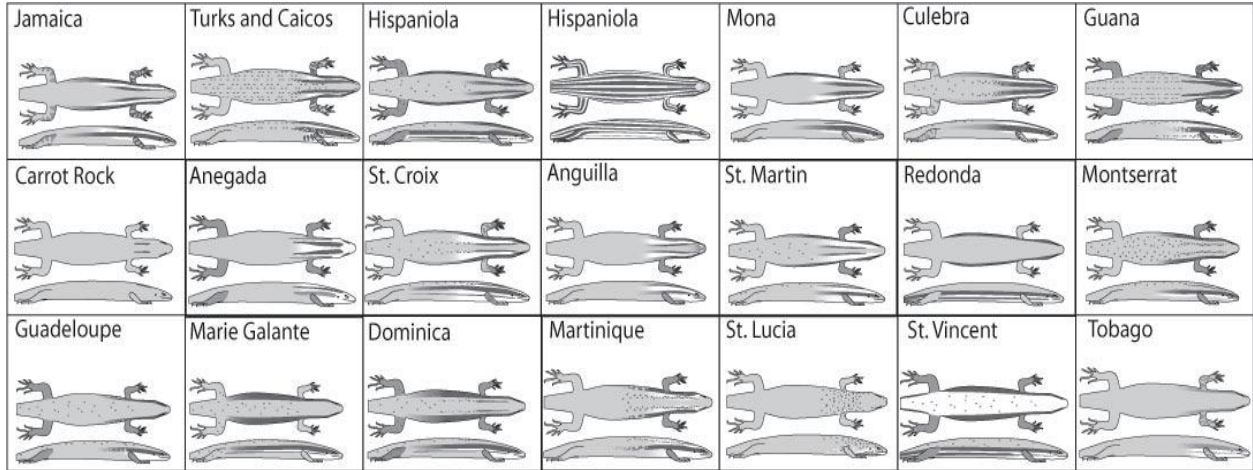
Much research remains to be done on the genus *Mabuya*. Our study provided evidence for the existence of additional species throughout Central and South America. Morphological and phylogenetic analyses can be done to resolve the evolutionary relationships of these mainland *Mabuya*, and the conservation status of these species should be assessed. Additionally, the West Indies supports a significant proportion of the world's biodiversity, but predators and deforestation threaten species with extinction. Further research and conservation efforts are needed to protect the life that still exists there.

**Figure 1. Head scalation in Caribbean island *Mabuya*.**



**Figure 1. Variation in head scalation within Caribbean island skinks of the genus *Mabuya*.** Head scalation, including scale counts and presence or absence of scale contact, was useful in distinguishing different skink species.

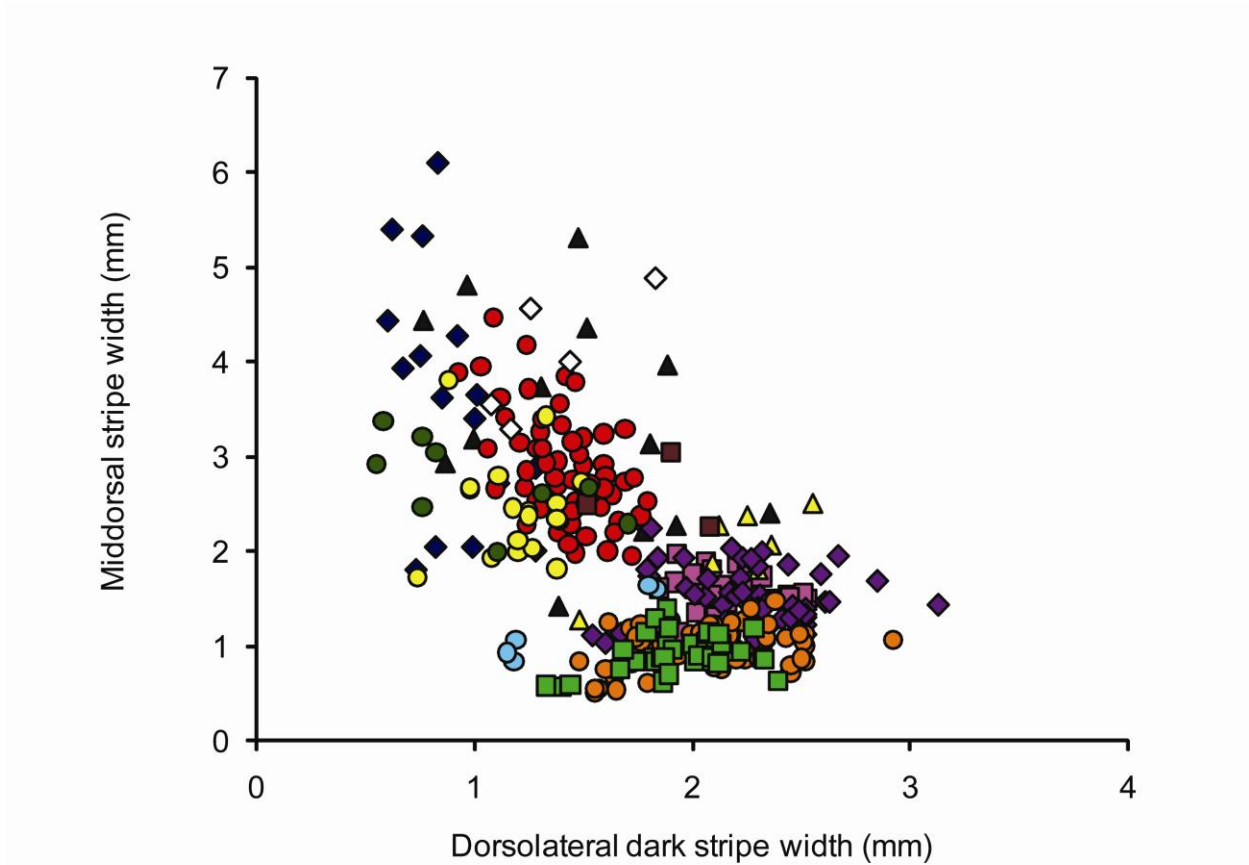
**Figure 2. Pattern and coloration in Caribbean island *Mabuya*.**



**Figure 2. Variation in pattern and coloration among Caribbean island skinks from the genus *Mabuya*.** Characters used to distinguish different species included presence or absence of stripes, size of stripes, dorsal color, and presence or absence of dorsal spots.

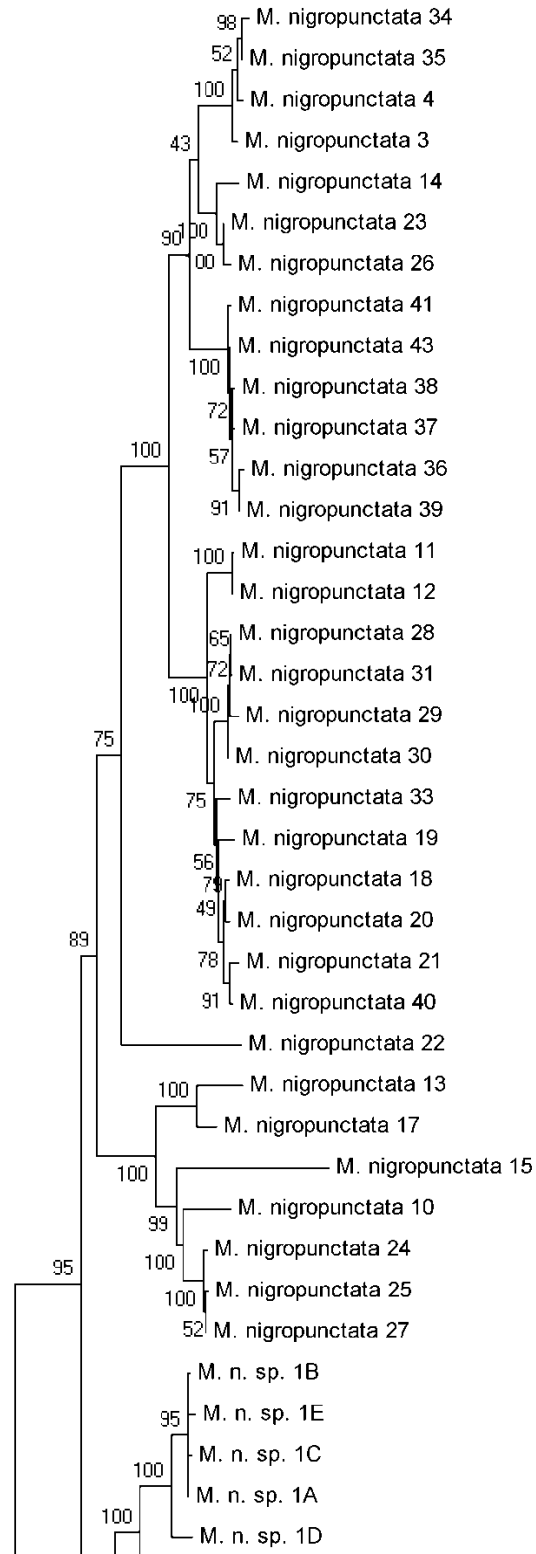


**Figure 3. Middorsal stripe width versus dorsolateral dark stripe width.**



**Figure 3.** Graph of middorsal stripe width versus dorsolateral dark stripe width including skinks from Anegada (green squares); Anguilla and St. Barts (yellow circles); the British Virgin Islands (excluding Anegada) and S. Capella Island (orange circles); Carrot Rock (*M. macleani*; brown squares); Culebra (purple diamonds); Green Cay and St. Croix (white diamonds); Jamaica (blue diamonds); Mona (pink squares); Monito (yellow triangles); Puerto Rico (black triangles); St. Martin (green circles); St. Thomas (*M. sloanii*; blue circles); and Turks & Caicos (both species; red circles).

**Figure 4. Maximum Likelihood tree created from 12S, 16S, cyt b, and MYH sequence data.**



(continued on next page)

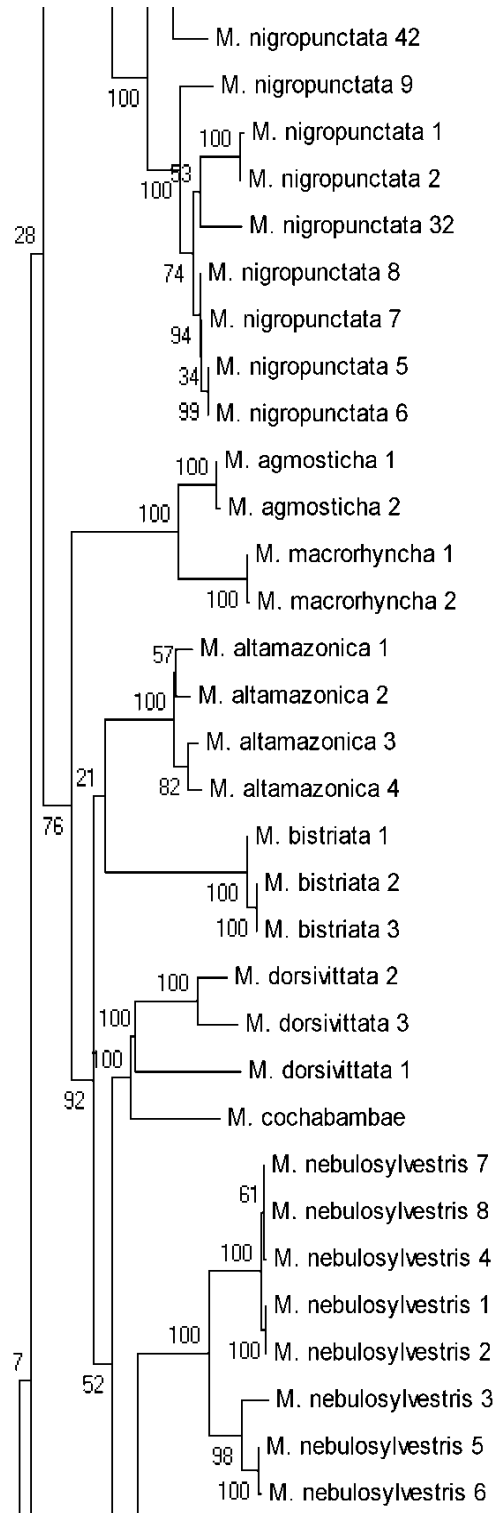


Figure 1 (continued on next page)

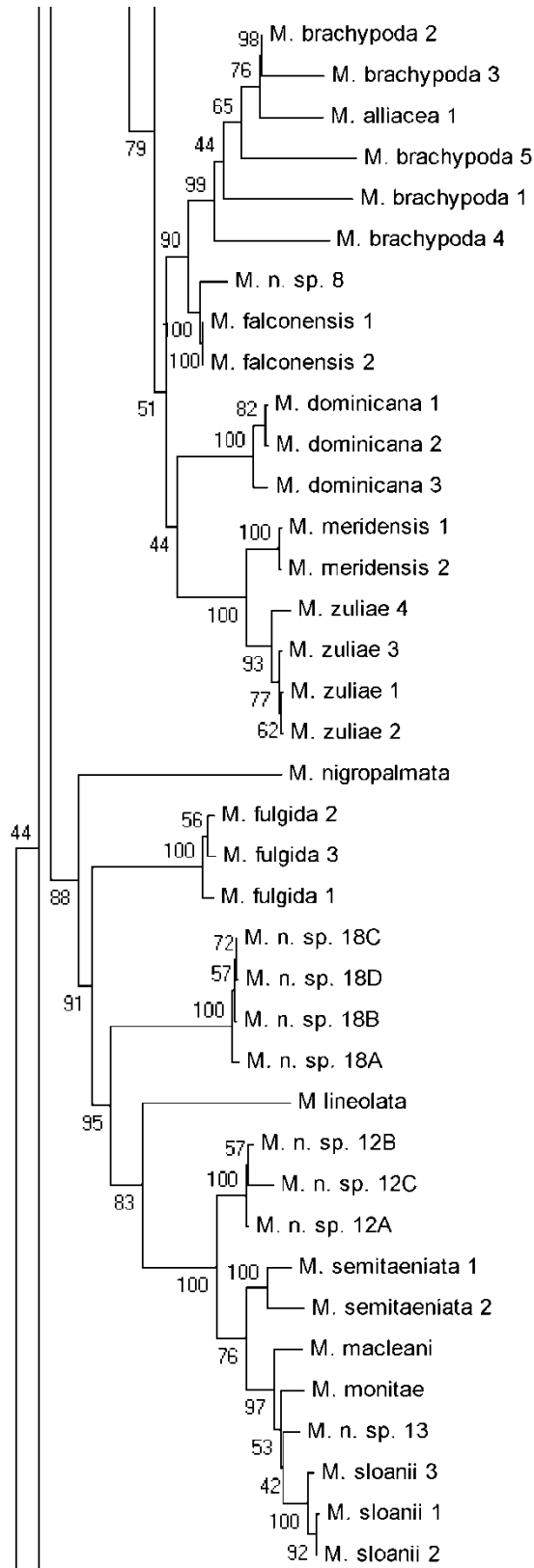
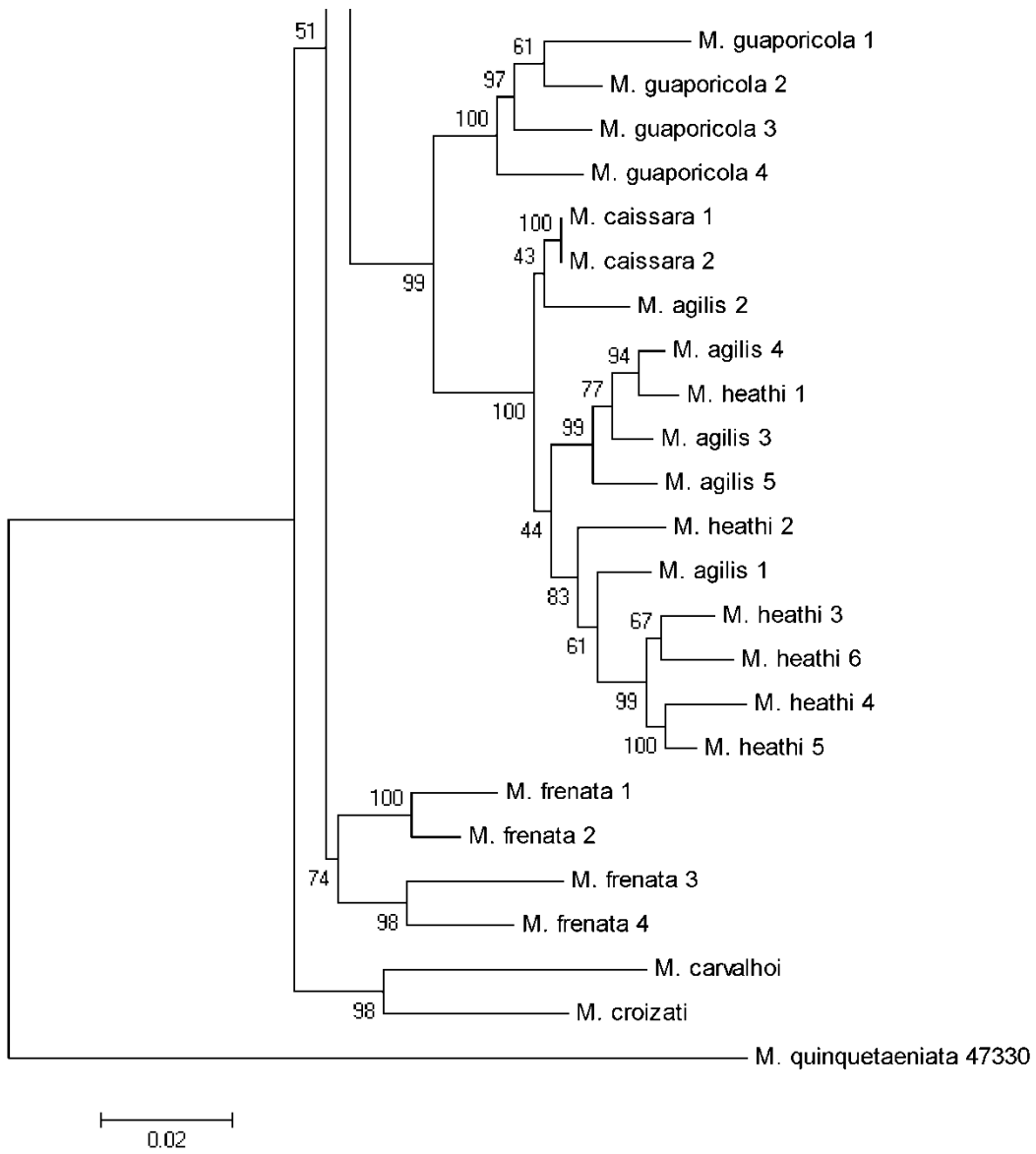


Figure 1 (continued on next page)



**Figure 1.** Support values are displayed at nodes.

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I would like to thank Dr. S. Blair Hedges for his invaluable support and guidance throughout my four years at Penn State. Dr. Hedges introduced me to a complex project when I was a freshman and has helped me to expand it every year since then. He has also provided me with many opportunities to explore others' research in this area and to share my own project within the academic community. In addition to guiding me through my research, Dr. Hedges has given me advice and encouragement to help me with my undergraduate classes, my graduate school preparations, and my career plans. He has been an incredible mentor, and I am so thankful for the opportunity that I have had to work with him. The experiences I have had in his lab have been some of the most educational of my entire college career, and the knowledge I have gained from him will continue to help me throughout my future.

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**APPENDIX A. MORPHOLOGICAL DATA.** Where contact is scored, “1” indicates the presence of contact, and “2” represents the absence of contact. Additionally, “1” indicates dark palms and soles, while “2” represents pale palms and soles.

Characters are separated by commas and include species, country/island, museum number, SVL, head length, head length/SVL, head width, head width/SVL, snout width, snout width/SVL, ear length, ear length/SVL, T4 length, T4 length/SVL, midbody scales, dorsals, ventrals, dorsals + ventrals, F4 lamellae, T4 lamellae, F4 + T4 lamellae, presuboculars, prefrontals, frontoparietals, supraoculars, supraciliaries, labial below eye, supraciliary-prefrontal contact, supranasal contact, prefrontal contact, supraocular 1-frontal contact, parietal contact, nuchal pairs, DLDS width, MS width, DLDS width/MS width, DLDS width/SVL, MS width/SVL, and coloration of palms and soles. The letter “N” represents data that were not available.

*alliacea*, Nicaragua, USNM 19542, 90.3, 14.8, 0.164, 10.9, 0.121, 2.30, 0.025, 1.40, 0.016, 8.56, 0.095, 29, 56, 63, 119, 13, 15, 28, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 2, 1, N, N, N, N, N, 2

*alliacea*, Costa Rica, UF 30454, 86.3, 15.5, 0.180, 10.7, 0.124, 2.26, 0.026, 1.28, 0.015, 8.83, 0.102, 26, 58, 63, 121, 13, 18, 31, 2, 4, 2, 4, 4, 5, 1, 2, N, 2, 1, 1, N, N, N, N, N, 2

*alliacea*, Costa Rica, UF 30459, 77.7, 13.8, 0.178, 9.80, 0.126, 2.02, 0.026, 0.930, 0.012, 8.88, 0.114, 28, 52, 62, 114, 13, 17, 30, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*alliacea*, Costa Rica, UF 30460, 49.3, 9.80, 0.199, 6.87, 0.139, 1.55, 0.031, 0.890, 0.018, 4.92, 0.100, 28, 53, 64, 117, 12, 16, 28, 2, 2, 2, 4, 4, 6, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1

*alliacea*, Costa Rica, UF 30467, 79.4, 14.1, 0.178, 10.3, 0.130, 2.00, 0.025, 1.33, 0.017, 8.81 N, 0.111, 28, 55, 62, 117, 13, 17, 30, 2, 2, 2, 4, 4, 6, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*alliacea*, Costa Rica, UF 30471, 86.4, 13.8, 0.160, 10.3, 0.119, 2.05, 0.024, 1.05, 0.012, 9.55, 0.111, 26, 57, 56, 113, 13, 14, 27, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1

*arajara*, Brazil, USNM 217645, 91.2, 16.4, 0.180, 13.3, 0.146, 2.34, 0.026, 2.05, 0.022, 8.99, 0.099, 30, 52, 57, 109, 12, 14, 26, 2, 2, 2, 3, 4, 6, 1, 2, 2, 1, 2, 1, N, N, N, N, N, 2

*berengerae*, San Andres, UMMZ 127884, 59.5, 11.3, 0.190, 7.07, 0.119, 1.52, 0.026, 0.850, 0.014, 7.62, 0.128, 28, 59, 65, 124, 14, 19, 33, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Mexico, AMNH R-91003, 34.8, 7.46, 0.214, 5.01, 0.144,

1.10,0.032,0.97,0.028,3.78,0.109,29,59,64,123,12,15,27,2,1,2,4,4,5,1,1,1,2,1,1,0,0,,,,,1

*brachypoda*, Mexico, AMNH R-94697, 65.3, 11.5, 0.176, 7.95, 0.122, 1.82, 0.028, 1.06, 0.016, 6.70, 0.103, 30, 59, 64, 123, 13, 15, 28, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*brachypoda*, Mexico, CM 41258, 44.0, 8.24, 0.187, 5.85, 0.133, 1.10, 0.025, 0.740, 0.017, 4.44, 0.101, 31, 60, 64, 124, 11, 14, 25, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Mexico, CM 52754, 26.4, 5.45, 0.206, 4.08, 0.155, 0.93, 0.035, N, N, 3.02, 0.114, 30, 60, 61, 121, 10, 15, 25, 2, 2, 2, 4, 6, 5, 1, 2, 2, 1, 1, 2, N, N, N, N, N, 2

*brachypoda*, Mexico, KU 157475, 68.3, 10.9, 0.160, 7.68, 0.112, 1.50, 0.022, 0.840, 0.012, 6.08, 0.089, 28, 61, 59, 120, 11, 14, 25, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Mexico, KU 157476, 44.7, 8.81, 0.197, 6.30, 0.141, 1.47, 0.033, 0.670, 0.015, 4.98, 0.111, 28, 56, 61, 117, 11, 15, 26, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Guatemala, UF 24600, 75.2, 13.1, 0.174, 8.94, 0.119, 1.94, 0.026, 1.64, 0.022, 7.61, 0.101, 30, 58, 64, 122, 13, 15, 28, 3, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Guatemala, TCWC 17163, 59.3, 10.4, 0.175, 8.63, 0.146, 1.67, 0.028, 0.980, 0.017, 7.00, 0.118, 30, 56, 59, 115, 11, 15, 26, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Honduras, TCWC 19211, 49.1, 9.32, 0.190, 6.87, 0.140, 1.39, 0.028, 0.790, 0.016, 5.38, 0.110, 30, 58, 65, 123, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Honduras, TCWC 19212, 45.0, 8.72, 0.194, 6.11, 0.136, 1.35, 0.030, 0.870, 0.019, 5.08, 0.113, 30, 57, 63, 120, 14, 16, 30, 2, 2, 2, 4, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 2  
*brachypoda*, Honduras, CM 65381, 76.6, 14.5, 0.189, 10.1, 0.132, 2.15, 0.028, 1.12, 0.015, 9.57, 0.125, 30, 59, 63, 122, 14, 19, 33, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 2, 1, N, N, N, N, N, 2  
*brachypoda*, Honduras, CM 65382, 56.0, 11.2, 0.200, 8.22, 0.147, 1.72, 0.031, 0.8, 0.014, 6.75, 0.121, 30, 58, N, N, 11, 13, 24, 2, 1, 2, 4, 4, 5, 1, 1, N, 2, 1, 1, N, N, N, N, N, 2  
*brachypoda*, Honduras, CM 65383, 57.0, 12.0, 0.211, 9.47, 0.166, 2.02, 0.035, 1.22, 0.021, 6.93, 0.122, 32, 55, 63, 118, 11, 16, 27, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Honduras, CM 65384, 72.2, N, N, 8.53, 0.118, N, N, 1.3, 0.018, 7.15, 0.099, 30, N, 62, N, 12, 14, 26, 2, N, 2, 4, 3, 5, 1, 1, N, 1, 2, 1, N, N, N, N, N, 2  
*brachypoda*, Honduras, CM 65385, 58.4, 12.0, 0.205, 8.48, 0.145, 1.94, 0.033, 0.74, 0.013, 7.29, 0.125, N, N, 59, N, 14, 17, 31, 2, 2, 2, 4, 5, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Honduras, CM 65386, 61.6, 11.9, 0.193, 8.61, 0.140, 1.84, 0.030, 1.02, 0.017, 6.86, 0.111, 30, 54, 57, 111, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Honduras, CM 65387, 74.3, 13.2, 0.178, 9.80, 0.132, 2.11, 0.028, 1.05, 0.014, 8.42, 0.113, 30, 60, 63, 123, 14, 16, 30, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Nicaragua, USNM 16145, 72.9, 11.8, 0.162, 8.98, 0.123, 1.77, 0.024, 0.930, 0.013, 6.93, 0.095, 29, 57, 60, 117, 11, 14, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*brachypoda*, Nicaragua, USNM 19872, 81.8, 14.7, 0.180, 10.8, 0.132, 2.34, 0.029, 1.10, 0.013, 9.13, 0.112, 30, 57, 65, 122, 14, 17, 31, 2, 2, 2, 4, 4, 5, 1, 1, 1, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Nicaragua, USNM 19873, 76.4, 14.4, 0.188, 10.4, 0.136, 2.32, 0.030, 1.54, 0.020, 9.67, 0.127, 30, 56, N, N, 14, 16, 30, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Nicaragua, TCWC 55585, 46.1, 9.07, 0.197, 6.51, 0.141, 1.21, 0.026, 0.740, 0.016, 5.23, 0.113, 30, 57, 60, 117, 14, 17, 31, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*brachypoda*, Nicaragua, TCWC 55586, 62.0, 11.2, N, 0.181, 8.24, 0.133, 1.61, 0.026, 1.12, 0.018, 7.33, 0.118, 30, 57, 57, 114, 13, 17, 30, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Nicaragua, TCWC 55587, 85.7, 14.7, 0.172, 11, 0.128, 2.05, 0.024, 1.56, 0.018, 8.74, 0.102, 28, 58, 64, 122, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Nicaragua, TCWC 55588, 95.1, 14.8, 0.156, 11.0, 0.116, 2.21, 0.023, 1.06, 0.011, 9.32, 0.098, 30, 57, 64, 121, 13, 15, 28, 2, 2, 2, 3, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, N  
*brachypoda*, Nicaragua, TCWC 55589, 79.0, 13.7, 0.173, 10.1, 0.128, 2.09, 0.026, 1.16, 0.015, 8.22, 0.104, 30, 57, 59, 116, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Nicaragua, TCWC 55590, 63.8, 10.5, 0.165, 8.13, 0.127, 1.66, 0.026, 0.92, 0.014, 6.26, 0.098, 30, 57, 58, 115, 11, 14, 25, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*brachypoda*, Costa Rica, TCWC 84023, 83.3, 14.9, 0.179, 11.2, 0.134, 2.28, 0.027, 1.02, 0.012, 8.58, 0.103, 28, 50, 59, 109, 13, 18, 31, 2, 2, 2, 4, 5, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Costa Rica, TCWC 84025, 89.0, 14.7, 0.165, 11.4, 0.128, 2.25, 0.025, 1.24, 0.014, 9.49, 0.107, 28, 53, 60, 113, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Costa Rica, TCWC 17165, N, 12.0, N, 9.30, N, 1.94, N, 0.89, N, 6.93, N, N, N, N, N, N, 11, 13, 24, 2, 2, 3, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*brachypoda*, Costa Rica, TCWC 80536, 74.4, 11.7, 0.157, 9.12, 0.123, 1.77, 0.024, 1.12, 0.015, 6.46, 0.087, 32, 59, 65, 124, 11, 15, 26, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Costa Rica, UF 143817, 83.5, 12.4, 0.149, 9.98, 0.120, 1.96, 0.023, 1.02, 0.012, 6.20, 0.074, 30, 63, 65, 128, 12, 14, 26, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Costa Rica, RT 1729, 79.4, 11.9, 0.150, 9.53, 0.120, 2.08, 0.026, 1.20, 0.015, 6.82, 0.086, 30, 60, 69, 129, 11, 14, 25, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 2

*brachypoda*, Mexico, LSUMZ 33344, 71.3, 12.8, 0.180, 9.27, 0.130, 1.93, 0.027, 0.900, 0.013, 7.21, 0.101, 28, 58, 62, 120, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 1, 2, 1, 1, N, N, N, N, N, N

*brachypoda*, Guanaja, LSUMZ 21883, 75.0, 14.4, 0.192, 10.6, 0.141, 1.93, 0.026, 0.99, 0.013, 9.36, 0.125, 32, 59, 64, 123, 13, 17, 30, 2, 2, 3, 4, 4, 6, 1, 1, 2, 2, N, 1, N, N, N, N, N, N

*brachypoda*, Belize, LSUMZ 10282, 44.5, 8.40, 0.189, 6.45, 0.145, 1.20, 0.027, 0.750, 0.017, 4.59, 0.103, 30, 59, 65, 124, 13, 14, 27, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, N

*brachypoda*, Utila, LSUMZ 22309, 55.4, 10.5, 0.190, 7.71, 0.139, 1.58, 0.029, 0.690, 0.012, 5.92, 0.107, 30, 56, 60, 116, 13, 16, 29, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, N

*caissara*, Brazil, USNM 217638, 69.6, 11.1, 0.159, 9.05, 0.130, 1.88, 0.027, 1.06, 0.015, 6.23, 0.090, 32, 62, 62, 124, 10, 14, 24, 2, 2, 2, 4, 6, 6, 1, 1, 2, 2, 1, 1, 2.80, 1.65, 1.70, 0.040, 0.024, 2

*carvalhoi*, Venezuela, USNM 217138, 69.0, 12.9, 0.187, 9.37, 0.136, 1.97, 0.029, 0.74, 0.011, 6.10, 0.088, 24, 54, 61, 115, 11, 13, 24, 2, 1, 1, 4, 4, 6, 2, 1, 1, 2, 1, 4, 1.56, 2.00, 0.780, 0.023, 0.029, 1

*croizati*, Venezuela, CM 7988, 64.8, 13.1, 0.202, 9.92, 0.153, 2.16, 0.033, 0.95, 0.015, 7.19, 0.111, 32, 56, 66, 122, 12, 14, 26, 2, 2, 1, 4, 5, 5, 2, 2, 1, 2, 1, 5, 2.35, 1.2, 1.958, 0.036, 0.019, 1

*croizati*, Venezuela, CM 7989, 76.1, 14.2, 0.187, 11.5, 0.151, 2.36, 0.031, 0.85, 0.011, 8.06, 0.106, 30, 55, 71, 126, 12, 14, 26, 2, 2, 1, 4, 5, 6, 2, 1, 1, 2, 1, 3, 2.61, 1.19, 2.193, 0.034, 0.016, 1

*croizati*, Venezuela, CM 7993, 66.3, 13.2, 0.199, 10.7, 0.161, 2.25, 0.034, 1.01, 0.015, 7.66, 0.116, 30, 54, 65, 119, 12, 14, 26, 2, 2, 1, 4, 5, 5, 2, 2, 1, 2, 1, 5, 2.5, 1.17, 2.137, 0.038, 0.018, 1

*dominicana*, Dominica, MPM 23266, 89.8, 15.6, 0.174, 11.2, 0.125, 2.46, 0.027, 1.09, 0.012, 9.05, 0.101, 32, 57, 67, 124, 16, 18, 34, 2, 2, 2, 3, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, MPM 23267, 75.8, 13.7, 0.181, 9.78, 0.129, 2.29, 0.030, 0.86, 0.011, 9.05, 0.119, 29, 60, 69, 129, 15, 17, 32, 2, 2, 2, 3, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, USNM 160610, 74.6, 15.6, 0.209, 11.5, 0.154, 2.57, 0.034, 1.24, 0.017, 9.79, 0.131, 28, 57, 66, 123, 15, 17, 32, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, USNM 160611, 68.1, 14, 0.206, 9.39, 0.138, 2.09, 0.031, 1.1, 0.016, 9.1, 0.134, 28, 58, 64, 122, 14, 15, 29, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, N, 1, N, N, N, N, N, 1

*dominicana*, Dominica, UMMZ 83319, 89.5, 15.6, 0.174, 11.4, 0.127, 2.56, 0.029, 0.69, 0.008, 9.13, 0.102, 31, 59, 64, 123, 14, 17, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 2, N, N, N, N, N, 1

*dominicana*, Dominica, UMMZ 83320, 75.2, 13.9, 0.185, 9.81, 0.130, 2.29, 0.030, 0.7, 0.009, 9.18, 0.122, 30, 55, 68, 123, 13, 17, 30, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, UMMZ 239608, 86.5, 16.3, 0.188, 11.5, 0.133, 2.44, 0.028, 0.87, 0.010, 9.62, 0.111, 30, 57, 67, 124, 14, 18, 32, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, UMMZ 239609, 83.3, 15.8, 0.190, 11.1, 0.133, 2.23, 0.027, 0.88, 0.011, 9.61, 0.115, 30, 56, 70, 126, 12, 17, 29, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, UMMZ 239610, 71.7, 13.8, 0.192, 9.6, 0.134, 2.06, 0.029, 1.06, 0.015, 8.19, 0.114, 30, 56, 68, 124, 14, 18, 32, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, UMMZ 83321, 90.6, 15.3, 0.169, 10.5, 0.116, 2.18, 0.024, 0.74, 0.008, 9.54, 0.105, 30, 58, 69, 127, 14, 17, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 239611, 87.7, 15.3, 0.174, 10.7, 0.122, 2.21, 0.025, 0.84, 0.010, 9.68, 0.110, 30, 57, 68, 125, 12, 17, 29, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 239612, 73, 14.1, 0.193, 9.59, 0.131, 2.04, 0.028, 0.94, 0.013, 9.3, 0.127, 30, 57, 68, 125, 13, 17, 30, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 239613, 97.7, 16.8, 0.172, 11.8, 0.121, 2.64, 0.027, 1.25, 0.013, 10.1, 0.103, 30, 56, 70, 126, 13, 18, 31, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 83322, 83, 15.9, 0.192, 10.9, 0.131, 2.26, 0.027, 1.07, 0.013, 9.83, 0.118, 28, 56, 64, 120, 12, 15, 27, 2, 2, 2, 3, 6, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 239614, 81, 15.4, 0.190, 10.9, 0.135, 2.28, 0.028, 1.1, 0.014, 9.81, 0.121, 30, 54, 68, 122, 14, 17, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 83323, 100.7, 16.7, 0.166, 11.6, 0.115, 2.48, 0.025, 1.11, 0.011, 10.2, 0.101, 30, 59, 71, 130, 13, 17, 30, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 239615, 77.1, 14.9, 0.193, 10.6, 0.137, 2.12, 0.027, 0.89, 0.012, 9.34, 0.121, 28, 54, 64, 118, 13, 18, 31, 2, 2, 2, 3, 5, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, UMMZ 239616, 88.1, 16.2, 0.184, 12.1, 0.137, 2.62, 0.030, 1.02, 0.012, 9.9, 0.112, 30, 59, 67, 126, 13, 18, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, MCZ R-182281, 93.1, 16.6, 0.178, 11.9, 0.128, 2.67, 0.029, 0.97, 0.010, 9.4, 0.101, 30, 60, 68, 128, 15, 17, 32, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, MCZ R-57814, 87.6, 16.7, 0.191, 11.1, 0.127, 2.73, 0.031, 1.59, 0.018, 9.95, 0.114, 30, 58, 65, 123, 14, 18, 32, 2, 2, 2, 4, 4, 6, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, AMNH R-135271, 90.2, 15.6, 0.173, 11.8, 0.131, 2.35, 0.026, 1.42, 0.016, 10.2, 0.113, 32, 57, 68, 125, 14, 17, 31, 2, 2, 2, 3, 5, 6, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 2  
*dominicana*, Dominica, BMNH 1964.1440, 75.3, 15.4, 0.205, 10.5, 0.139, 2.36, 0.031, N, N, N, N, 30, 58, 63, 121, 14, 19, 33, 2, 2, 2, 4, 5, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, RT 226, 81.7, 15.1, 0.185, 11.6, 0.142, 2.58, 0.032, 1.17, 0.014, 9.3, 0.114, 28, 56, 66, 122, 14, 15, 29, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, RT 227, 75, 14.7, 0.196, 10.7, 0.143, 2.49, 0.033, 1.32, 0.018, 8.99, 0.120, 27, 58, 68, 126, 15, 18, 33, 2, 2, 2, 3, 4, 6, 1, N, N, 1, N, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, RT 260, 94, 15.4, 0.164, 11.1, 0.118, 2.39, 0.025, 1.3, 0.014, 9.25, 0.098, 30, 59, 68, 127, 15, 16, 31, 3, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, CAS 112317, 92.9, 16.3, 0.175, 12.4, 0.133, 2.72, 0.029, 1.06, 0.011, 9.64, 0.104, 28, 58, 66, 124, 13, 15, 28, 2, 2, 2, 4, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, MCZ 127759, 48.1, 10.1, 0.210, 6.11, 0.127, 1.29, 0.027, 0.73, 0.015, 5.54, 0.115, 30, 62, 69, 131, 13, 16, 29, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, MCZ 127760, 79.6, 14.8, 0.186, 10.9, 0.137, 2.12, 0.027, 1.11, 0.014, 9.23, 0.116, 30, 57, 66, 123, 13, 18, 31, 2, 2, 2, 3, 5, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 2  
*dominicana*, Dominica, KU 242015, 85.3, 15.8, 0.185, 10.9, 0.128, 2.39, 0.028, 1.04, 0.012, 8.9, 0.104, 30, 56, 65, 121, 13, 16, 29, 2, 2, 2, 3, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242016, 95.0, 16.6, 0.175, 13.2, 0.139, 2.41, 0.025, 0.980, 0.010, 8.46, 0.089, 32, 60, 71, 131, 14, 17, 31, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242017, 83.6, 14.6, 0.175, 10.3, 0.123, 2.34, 0.028, 0.98, 0.012, 9.13, 0.109, 28, 57, 67, 124, 12, 15, 27, 2, 2, 2, 4, 4, 6, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242018, 90.3, 17.2, 0.190, 12.1, 0.134, 2.58, 0.029, 1.28, 0.014, 9.77, 0.108, 28, 57, 68, 125, 12, 17, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*dominicana*, Dominica, KU 242019, 74.3, 13.4, 0.180, 9.38, 0.126, 1.96, 0.026, 0.81, 0.011, 8.53, 0.115, 32, 63, 73, 136, 13, 17, 30, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242020, 93.4, 16.1, 0.172, 11.6, 0.124, 2.44, 0.026, 1.01, 0.011, 9.52, 0.102, 30, 60, 68, 128, 13, 18, 31, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242021, 89.3, 15.8, 0.177, 11.2, 0.125, 2.42, 0.027, 1.12, 0.013, 9.48, 0.106, 30, 60, 71, 131, 14, 18, 32, 3, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242022, 83.9, 15.4, 0.184, 10.6, 0.126, 2.16, 0.026, 1.22, 0.015, N, N, 30, 58, 68, 126, 13, N, N, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242023, 82.7, 15.3, 0.185, 10.6, 0.128, 2.28, 0.028, 0.75, 0.009, 9.4, 0.114, 29, 58, 70, 128, 12, 17, 29, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242024, 76.8, 13.9, 0.181, 9.96, 0.130, 2.05, 0.027, 0.88, 0.011, 8.9, 0.116, 32, 60, 70, 130, 15, 17, 32, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242025, 90.5, 15.8, 0.175, 11.2, 0.124, 2.44, 0.027, 0.87, 0.010, 8.79, 0.097, 30, 59, 66, 125, 13, 16, 29, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, N, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242026, 72.8, 13.5, 0.185, 8.77, 0.120, 1.84, 0.025, 0.94, 0.013, 7.76, 0.107, 30, 61, 71, 132, 13, 15, 28, 2, 2, 2, 4, 3, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242027, 87.8, 16.1, 0.183, 11.4, 0.130, 2.43, 0.028, 0.92, 0.010, 9.25, 0.105, 29, 58, 67, 125, 14, 17, 31, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242028, 90.7, 16.3, 0.180, 11.8, 0.130, 2.63, 0.029, 1.17, 0.013, 10.2, 0.112, 30, 59, 69, 128, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242029, 101, 16.9, 0.167, 12.1, 0.120, 2.61, 0.026, 1.05, 0.010, 9.32, 0.092, 32, 61, 71, 132, 15, 17, 32, 2, 2, 2, 4, 4, 6, 1, 2, 2, N, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242030, 87.2, 15.9, 0.182, 11.8, 0.135, 2.63, 0.030, 0.81, 0.009, 9.79, 0.112, 30, 58, 67, 125, 13, 19, 32, 2, 2, 2, 3, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242031, 79.6, 15, 0.188, 11, 0.138, 2.52, 0.032, 0.91, 0.011, 9.79, 0.123, 32, 58, 70, 128, 14, 17, 31, 2, 2, 2, 3, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242032, 75.2, 14.1, 0.188, 9.95, 0.132, 2.47, 0.033, 1.01, 0.013, 8.24, 0.110, 32, 61, N, N, 14, 18, 32, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242033, 71, 13.3, 0.187, 9.63, 0.136, 2.12, 0.030, 1.03, 0.015, 8.17, 0.115, 30, 61, 71, 132, 15, 17, 32, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242034, 92.3, 16.9, 0.183, 11.7, 0.127, 2.7, 0.029, 1.15, 0.012, 9.18, 0.099, 32, 58, 67, 125, 15, 17, 32, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242035, 80.4, 15, 0.187, 10.3, 0.128, 2.23, 0.028, 1.14, 0.014, 9.01, 0.112, 30, 58, 67, 125, 14, 17, 31, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242036, 76.2, 14.5, 0.190, 9.86, 0.129, 2.36, 0.031, 0.68, 0.009, 8.86, 0.116, 30, 59, 69, 128, 15, 18, 33, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242037, 60.7, 12.6, 0.208, 8.54, 0.141, 1.79, 0.029, 0.770, 0.013, 7.48, 0.123, N, N, 66, N, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242038, 86.1, 16.3, 0.189, 12, 0.139, 2.72, 0.032, 1.32, 0.015, 10, 0.116, 30, 60, 64, 124, 14, 17, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242039, 87.2, 15.2, 0.174, 11.1, 0.127, 2.36, 0.027, 1.09, 0.013, 8.93, 0.102, 30, 59, 69, 128, 14, 17, 31, 2, 2, 2, 4, 5, 7, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242040, 47.4, 10.4, 0.219, 6.93, 0.146, 1.62, 0.034, 0.64, 0.014, 5.88, 0.124, 30, 57, 69, 126, 15, 19, 34, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*dominicana*, Dominica, KU 242041, 80, 15.5, 0.194, 10.7, 0.134, 2.6, 0.033, 1.29, 0.016, 8.81, 0.110, N, 58, 65, 123, 14, 18, 32, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1





*frenata*, Paraguay, CM 142496, 50.2, 9.98, 0.199, 7.24, 0.144, 1.52, 0.030, 1.08, 0.022, 6.05, 0.121, 30, 58, 65, 123, 15, 18, 33, 2, 2, 1, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*frenata*, Paraguay, CM 142422, 33.6, 8.06, 0.240, 5.29, 0.157, 1.08, 0.032, 0.900, 0.027, 4.22, 0.126, 30, 55, 56, 111, 11, 15, 26, 2, 2, 1, 4, 6, 6, 2, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*frenata*, Paraguay, CM 142380, 48.9, 10.3, 0.211, 7.07, 0.145, 1.51, 0.031, 1.06, 0.022, 5.82, 0.119, 28, 56, 64, 120, 12, 15, 27, 2, 2, 1, 4, 5, 6, 2, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*frenata*, Argentina, TCWC 69342, 48.9, 9.59, 0.196, 6.58, 0.135, 1.32, 0.027, 0.87, 0.018, 4.99, 0.102, 30, 60, 64, 124, 12, 15, 27, 2, 2, 1, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*frenata*, Argentina, TCWC 70113, 62.4, 11.2, 0.179, 8.32, 0.133, 1.61, 0.026, 1.10, 0.018, 6.30, 0.101, 32, 62, 68, 130, 13, 17, 30, 2, 2, 1, 4, 5, 6, 1, 1, 2, 2, N, 1, N, N, N, N, N, 2  
*frenata*, Argentina, TCWC 70251, 74.1, 13.9, 0.188, 9.73, 0.131, 2.16, 0.029, 1.29, 0.017, 7.64, 0.103, 31, 57, 64, 121, 13, 17, 30, 2, 2, 1, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*frenata*, Argentina, TCWC 70289, 50.0, 10.0, 0.200, 7.28, 0.146, 1.52, 0.030, 0.930, 0.019, 5.92, 0.118, 28, 57, 64, 121, 13, 16, 29, 2, 2, 1, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*frenata*, Argentina, TCWC 70290, 76.0, 13.1, 0.172, 9.21, 0.121, 2.00, 0.026, 0.97, 0.013, 7.35, 0.097, 30, 58, 64, 122, 13, 16, 29, 2, 2, 1, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*frenata*, Argentina, TCWC 70340, 67.5, 13.2, 0.196, 8.87, 0.131, 1.69, 0.025, 1.28, 0.019, 8.03, 0.119, 30, 56, 63, 119, 13, 17, 30, 2, 2, 1, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
  
*fulgida*, Jamaica, UMMZ 53306, 84.8, 13.8, 0.163, 9.75, 0.115, 2.42, 0.029, 1.33, 0.016, 8.27, 0.098, 32, 54, 63, 117, 13, 17, 30, 2, 2, 2, 4, N, N, 1, N, 2, 1, 1, 3, 1.68, N, N, 0.020, N, 2  
*fulgida*, Jamaica, UMMZ 53307, 56.2, 10.9, 0.194, 7.18, 0.128, 1.61, 0.029, 1.59, 0.028, 5.9, 0.105, 30, 58, 62, 120, 13, 17, 30, 2, 2, 2, 4, 5, 6, 1, 2, 2, 1, 1, 2, N, N, N, N, N, 2  
*fulgida*, Jamaica, UMMZ 53308, 53.6, 10.3, 0.192, 7.37, 0.138, 1.78, 0.033, 1.39, 0.026, 5.89, 0.110, 28, 54, 60, 114, 12, 17, 29, 2, 2, 2, 4, 5, 5, 1, 2, 1, 1, 1, 2, N, N, N, N, N, 2  
*fulgida*, Jamaica, UMMZ 53309, 66.8, 11.9, 0.178, 7.81, 0.117, 2.15, 0.032, 1.33, 0.020, 6.8, 0.102, 30, 54, 61, 115, 12, 19, 31, 2, 2, 2, 4, 5, 6, 1, 2, 1, 1, 1, 2, N, N, N, N, N, 2  
*fulgida*, Jamaica, UMMZ 85862, 70.9, 12.1, 0.171, 7.82, 0.110, 2.42, 0.034, 1.5, 0.021, 6.43, 0.091, 30, 56, 62, 118, 13, 16, 29, 2, 2, 2, 4, 5, 5, 1, 2, 1, 2, 1, 2, 1.11, 2.72, 0.408, 0.016, 0.038, 1  
*fulgida*, Jamaica, UMMZ 92371A, 71.6, 13.4, 0.187, 9.48, 0.132, 2.14, 0.030, 1.61, 0.022, 8.9, 0.124, 32, 54, 65, 119, 16, 19, 35, 2, 2, 2, 4, 5, N, 1, 2, 1, 1, 1, 2, N, N, N, N, N, 2  
*fulgida*, Jamaica, UMMZ 92371B, 79.8, 14.8, 0.185, 10.5, 0.132, N, N, 1.52, 0.019, 8.9, 0.112, 32, 54, N, N, 13, 19, 32, N, 2, 2, N, N, 5, N, N, 1, 1, 1, 2, N, N, N, N, N, 2  
*fulgida*, Jamaica, UMMZ 92371C, 77.0, 14.7, 0.191, 9.63, 0.125, 2.21, 0.029, 1.38, 0.018, N, N, N, N, 63, N, N, N, N, N, 2, 2, N, N, 6, 1, N, 1, 2, 1, N, N, N, N, N, 2  
*fulgida*, Jamaica, UMMZ 92371D, 77.9, 15.3, 0.196, 10.5, 0.135, 2.30, 0.030, 1.54, 0.020, 9.77, 0.125, 30, 54, 63, 117, 14, 18, 32, 2, 2, 2, 4, N, 6, 2, 2, 1, 1, 1, 2, N, N, N, N, N, 2  
*fulgida*, Jamaica, UMMZ 85861, 66.5, 12.7, 0.191, 8.78, 0.132, 2.48, 0.037, 1.20, 0.018, 7.04, 0.106, 30, N, N, N, 15, 16, 31, 2, 2, 2, 4, 5, 6, 1, 2, 1, 1, 1, 2, 0.85, 3.62, 0.235, 0.013, 0.054, 1  
*fulgida*, Jamaica, UMMZ 239601, 27.4, 7.47, 0.273, 4.53, 0.165, 1.03, 0.038, 0.72, 0.026, 4.42, 0.161, 30, 53, 55, 108, 14, 18, 32, 2, 2, 2, 4, 5, 6, 1, 2, 1, 2, 1, 2, 0.82, 2.05, 0.400, 0.030, 0.075, 1  
*fulgida*, Jamaica, UMMZ 239602, 26.8, 7.25, 0.271, 4.45, 0.166, 0.990, 0.037, 0.690, 0.026, 3.87, 0.144, N, 54, N, N, 13, 18, 31, 2, 2, 2, 4, 5, 7, 2, 2, 1, 2, 1, 2, 0.73, 1.81, 0.403, 0.027, 0.068, 1

*fulgida*, Jamaica, UMMZ 239603, 25.6, 7.48, 0.292, 4.53, 0.177, 1, 0.039, 0.730, 0.029, 4.04, 0.158, 30, 53, N, N, 14, 18, 32, 3, 2, 2, 4, 5, 7, 2, 2, 1, 2, 1, 2, 0.99, 2.05, 0.483, 0.039, 0.080, 1  
*fulgida*, Jamaica, UMMZ 239604, 59.8, 11.3, 0.189, 7.68, 0.128, 1.72, 0.029, 1.02, 0.017, 6.71, 0.112, 30, 56, 62, 118, 13, 17, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 1, 3, 1.28, 2.01, 0.637, 0.021, 0.034, 1  
*fulgida*, Jamaica, USNM 5759A, 58.4, 12.2, 0.209, 7.85, 0.134, 1.87, 0.032, 1.63, 0.028, 7.04, 0.121, 28, 54, 60, 114, 13, 14, 27, 2, 2, 2, 4, 5, 6, 1, 2, 2, 2, 1, 2, 0.75, 4.06, 0.185, 0.013, 0.070, 1  
*fulgida*, Jamaica, USNM 5759B, 76.7, 14.5, 0.189, 10.2, 0.133, 2.53, 0.033, 1.21, 0.016, 9.9, 0.129, 30, 58, N, N, 16, 18, 34, 2, 2, 2, 4, 5, 5, 1, 2, 2, 1, 1, 3, 1, 3.4, 0.294, 0.013, 0.044, 1  
*fulgida*, Jamaica, USNM 5759C, 75.8, 14.8, 0.195, 9.17, 0.121, 2.35, 0.031, 1.60, 0.021, N, N, 30, N, 60, N, 13, N, N, 2, 2, 2, 4, 5, 5, 1, 2, 2, 1, 1, N, 0.600, 4.43, 0.135, 0.008, 0.058, 1  
*fulgida*, Jamaica, USNM 5759D, 70.2, 13.5, 0.192, 9.70, 0.138, 1.87, 0.027, 1.50, 0.021, 8.08, 0.115, 32, 54, 64, 118, 15, 16, 31, 2, 2, 2, 4, 5, 6, 1, 2, 2, 2, 1, 3, 0.92, 4.27, 0.215, 0.013, 0.061, 1  
*fulgida*, Jamaica, USNM 5759E, 76.8, 14.9, 0.194, 9.75, 0.127, 1.89, 0.025, 1.68, 0.022, N, N, 30, 56, 63, 119, 14, 16, 30, 2, 2, 2, 4, 5, 6, 1, 2, 2, 2, 1, 3, N, N, N, N, N, 1  
*fulgida*, Jamaica, USNM 5759F, 62.8, 12.4, 0.197, 8.88, 0.141, 1.39, 0.022, 1.65, 0.026, 7.24, 0.115, 28, 56, 64, 120, 14, 17, 31, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 1, 3, 1.01, 3.65, 0.277, 0.016, 0.058, 1  
*fulgida*, Jamaica, MCZ 6053, 65.1, 12.6, 0.194, 8.26, 0.127, 1.67, 0.026, 1.22, 0.019, 7.09, 0.109, 30, 54, 60, 114, 12, 18, 31, 2, 2, 2, 4, 5, 5, 1, 2, 2, 2, 1, 3, 0.67, 3.93, 0.170, 0.010, 0.060, 1  
*fulgida*, Jamaica, MCZ R-45195, 69.8, 11.9, 0.170, 8.67, 0.124, 1.76, 0.025, 1.13, 0.016, 7.24, 0.104, 31, 57, 59, 116, 13, 17, 30, 2, 2, 2, 4, 5, 6, 1, 2, 1, 1, 1, 2, 1.28, 2.88, 0.444, 0.018, 0.041, 2  
*fulgida*, Jamaica, MCZ R-45197, 76.2, N, N, 9.44, 0.124, 2.14, 0.028, 1.25, 0.016, 7.85, 0.103, 32, 52, N, N, 14, 19, 33, 2, 2, 2, 4, 5, 6, 1, 2, 2, 2, N, 3, 1.76, 2.32, 0.759, 0.023, 0.030, 2  
*fulgida*, Jamaica, ANSP 13597, 51.1, 10.3, 0.202, 7.16, 0.140, 1.55, 0.030, 1.35, 0.026, 6, 0.117, 32, 54, 61, 115, 14, 17, 31, 2, 2, 2, 4, 5, 6, 1, 2, 2, 2, 1, 2, 0.76, 5.32, 0.143, 0.015, 0.104, 1  
*fulgida*, Jamaica, ANSP 13598, 82.7, 15.4, 0.186, 11.2, 0.135, 3.07, 0.037, 1.74, 0.021, 9.18, 0.111, 28, 55, 61, 116, 15, 19, 34, 2, 2, 2, 4, 5, 6, 1, 2, 1, 1, 1, 2, 0.62, 5.39, 0.115, 0.007, 0.065, 2  
*fulgida*, Jamaica, ANSP 13599, 66.7, 13.2, 0.198, 7.84, 0.118, 1.93, 0.029, 1.32, 0.020, 8.42, 0.126, 28, 54, 61, 115, 16, 19, 35, 2, 2, 2, 4, 5, 6, 1, 2, 2, 2, 1, 2, 0.83, 6.09, 0.136, 0.012, 0.091, 1  
  
*guaporicola*, Brazil, USNM 217639, 82.3, 12.9, 0.157, 9.14, 0.111, 1.81, 0.022, 1.23, 0.015, 5.43, 0.066, 32, 69, 72, 141, 9, 13, 22, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*guaporicola*, Brazil, USNM 217640, 31.5, 7.47, 0.237, 4.94, 0.157, 1.25, 0.040, 0.78, 0.025, 3.87, 0.123, 34, 67, N, N, 9, 12, 21, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 2  
  
*heathi*, Brazil, USNM 209647, 67.3, 11.9, 0.177, 8.21, 0.122, 1.51, 0.022, 1.53, 0.023, 6.70, 0.100, 29, 55, 58, 113, 11, 15, 26, 2, 2, 2, 4, 5, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*heathi*, Brazil, USNM 209648, 67.4, 12.2, 0.181, 8.93, 0.132, 1.74, 0.026, 1.35, 0.020, 6.74, 0.100, 31, 60, 62, 122, 11, 15, 26, 2, 2, 2, 4, 5, 6, 2, N, 2, 2, 1, 1, 2.71, N, N, 0.040, N, 2  
*heathi*, Brazil, USNM 209649, 51.6, 9.41, 0.182, 7.52, 0.146, 1.17, 0.023, 1.17, 0.023, 5.36, 0.104, 32, 59, 62, 121, 10, 14, 24, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 1, 1, 2.24, 1.58, 1.418, 0.043, 0.031, 2  
*heathi*, Brazil, USNM 209650, 69, 11.2, 0.162, 8.36, 0.121, 1.48, 0.021, 0.99, 0.014, 6.41, 0.093, 32, 61, 60, 121, 11, 15, 26, 2, 2, 2, 4, 5, 5, 1, 1, 2, 2, 1, 1, 2.36, 1.15, 2.052, 0.034, 0.017, 2  
  
*lanceolata*, Barbados, USNM 6041, 82.2, 13.4, 0.163, 9.24, 0.112, 2.17, 0.026, 1.01, 0.012, 7.60, 0.092, 32, 59, 71, 130, 14, 17, 31, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 2



*mabouya*, Martinique, BMNH 53.2.4.39, 101, 16.9, 0.167, 12.2, 0.121, 2.94, 0.029, N, N, N, N, 30, 61, 68, 129, 16, 18, 34, 2, 2, 2, 3, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1

*mabouya*, Martinique, MNHN 1785, 92.6, 17.1, 0.185, 11.6, 0.125, 2.37, 0.026, 1.29, 0.014, 9.72, 0.105, 26, 57, 65, 122, 12, 16, 28, 2, 2, 2, 3, 4, 6, 2, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*mabouya*, Martinique, MNHN 5110, 96.8, 15.7, 0.162, 11.7, 0.121, 2.59, 0.027, 1.30, 0.013, 9.86, 0.102, 34, 59, 66, 125, 13, 17, 30, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*mabouya*, Antilles, MNHN 1889.0664, 101.3, 17.6, 0.174, 13.1, 0.129, 2.76, 0.027, 1.38, 0.014, 11.3, 0.112, 34, 58, 71, 129, 15, 19, 34, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*macleani*, British Virgins, MCZ R-182270, 79.6, 12.7, 0.160, 9.67, 0.121, 2.22, 0.028, 1.13, 0.014, 6.55, 0.082, 34, 63, 62, 125, 14, 17, 31, 2, 2, 2, 4, 5, 5, 1, 1, 2, 1, 1, 2, 1.52, 2.50, 0.608, 0.019, 0.031, 2

*macleani*, British Virgins, MCZ R-182271, 75.5, 13.2, 0.175, 10.4, 0.138, 2.33, 0.031, 1.1, 0.015, 6.79, 0.090, 32, 63, 62, 125, 13, 15, 28, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2

*macleani*, British Virgins, SBH 268017, 76.8, 12.4, 0.161, 9.69, 0.126, 2.04, 0.027, 1.17, 0.015, 7.11, 0.093, 32, 62, 63, 125, 14, 17, 31, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.9, 3.04, 0.625, 0.025, 0.040, 2

*macleani*, British Virgins, MCZ 176728, 71.8, 12.2, 0.170, 9.68, 0.135, 1.77, 0.025, 0.950, 0.013, 5.90, 0.082, 32, 65, 62, 127, 12, 18, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, N, N, N, N, N, 2

*macleani*, British Virgins, MCZ R-182272, 64.5, 10.8, 0.167, 8.67, 0.134, 1.73, 0.027, 0.83, 0.013, 6.78, 0.105, 32, 63, 64, 127, 14, 17, 31, 2, 2, 2, 4, 3, 6, 2, 2, 2, 2, 1, 2, 2.08, 2.27, 0.916, 0.032, 0.035, 2

*macrorhyncha*, Brazil, USNM 217643, 63.1, 11.7, 0.185, 8.66, 0.137, 1.79, 0.028, 1.09, 0.017, N, N, 28, 54, 60, 114, 12, 17, 29, 2, 2, 2, 4, 5, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N

*meridensis*, Venezuela, UMMZ 57435, 32.4, 7.38, 0.228, 4.86, 0.150, 1.02, 0.031, 0.650, 0.020, 3.78, 0.117, 30, 63, 64, 127, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*metallica*, Martinique, MNHN 5424, 77.6, 11.5, 0.148, 8.52, 0.110, 1.78, 0.023, 1.13, 0.015, 7.85, 0.101, 30, 62, 66, 128, 10, 14, 24, 2, 2, 2, 4, 5, 5, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1

*nigropunctata*, Venezuela, TCWC 59750, 96.2, 16.5, 0.172, 12.1, 0.126, 2.77, 0.029, 1.37, 0.014, 10.2, 0.106, 30, 53, 60, 113, 12, 15, 27, 2, 2, 2, 4, N, N, N, N, N, N, N, N, N, N, N, N, N

*nigropunctata*, Venezuela, TCWC 59228, 100.7, 17.3, 0.172, 13.6, 0.135, 2.78, 0.028, 0.95, 0.009, 10.1, 0.100, 28, 53, 58, 111, 13, 15, 28, 2, 2, 2, 4, N, N, N, N, N, N, N, N, N, N, N, N, N

*nigropunctata*, Ecuador, UMMZ 84742, 67.5, 13.8, 0.204, 9.6, 0.142, 2.52, 0.037, 1.06, 0.016, 8.66, 0.128, 30, 54, 64, 118, 14, 18, 32, 2, 2, 2, 4, 6, 6, 1, 2, 2, 2, 2, 1, N, N, N, N, N, 1

*nigropunctata*, Guyana, UMMZ 85261, 84.8, 16.9, 0.199, 12.6, 0.149, 2.95, 0.035, 1.47, 0.017, 8.87, 0.105, 30, 52, 58, 110, 12, 16, 28, 2, 2, 2, 4, 5, 6, 1, 1, 1, 2, 2, 1, N, N, N, N, N, 1

*nigropunctata*, Guyana, UMMZ 85263, 71.5, 14.3, 0.200, 10.1, 0.141, 2.48, 0.035, 1.46, 0.020, 8.77, 0.123, 30, 53, 53, 106, 12, 16, 28, 2, 2, 2, 4, 5, 5, 1, 1, 2, 1, 2, 1, N, N, N, N, N, 1

*nigropunctata*, Guyana, UMMZ 239607, 69.4, 14.1, 0.203, 10.2, 0.147, 2.54, 0.037, 1.33, 0.019, 8.38, 0.121, 29, 50, 55, 105, 13, 15, 28, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 2, 1, N, N, N, N, N, 1

*nigropunctata*, Guyana, CM 5370, 97.7, 17.6, 0.180, 13.4, 0.137, 3.07, 0.031, 1.47, 0.015, 9.84, 0.101, 30, 52, 58, 110, 11, 14, 25, 2, 2, 2, 4, 5, 6, 2, 1, 2, 2, 2, 1, N, N, N, N, N, 1

*nigropunctata*, Guyana, CM 136106, 56.3, 11.5, 0.204, 8.33, 0.148, 1.79, 0.032, 1.33, 0.024, 6.28, 0.112, 30, 53, 57, 110, 12, 15, 27, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*nigropunctata*, Guyana, CM 136116, 43.5, 9.61, 0.221, 6.70, 0.154, 1.30, 0.030, 1.09, 0.025, 4.69, 0.108, 31, 52, 61, 113, 12, 15, 27, 2, 2, 2, 4, 5, 6, 2, 1, 2, 2, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, Guyana, CM 136122, 47.5, 9.98, 0.210, 7.19, 0.151, 1.55, 0.033, 1.07, 0.023, 5.33, 0.112, 30, 54, 59, 113, 12, 14, 26, 2, 2, 2, 4, 5, 6, 1, 1, 2, 1, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, Guyana, CM 136131, 71.4, 14.5, 0.203, 10.7, 0.150, 2.41, 0.034, 1.50, 0.021, 8.90, 0.125, N, 52, 58, 110, 13, 16, 29, 2, 2, 2, 4, 5, 5, 2, 1, 2, 2, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, Suriname, CM 49530, 88, 17.2, 0.195, 14.1, 0.160, 2.92, 0.033, 1.34, 0.015, 10.5, 0.119, 32, 52, 57, 109, 12, 15, 27, 2, N, 2, 4, N, 6, 1, 1, N, 2, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, French Guiana, MNHN 1996.4570, 101.7, 19.6, 0.193, 14.8, 0.146, 3.48, 0.034, 1.88, 0.018, 9.86, 0.097, 30, 49, 56, 105, 12, 16, 28, 2, 2, 2, 4, 6, 6, 1, 1, 1, 2, 2, N, N, N, N, N, N, 1  
*nigropunctata*, French Guiana, MNHN 1996.4571, 59.6, 11.6, 0.195, 8.96, 0.150, 1.83, 0.031, 2, 0.034, 6.71, 0.113, 32, 54, 60, 114, 12, 16, 28, 3, 2, 2, 4, 5, 6, 1, 1, 1, 1, 2, N, N, N, N, N, N, 1  
*nigropunctata*, French Guiana, MNHN 1996.4572, 63.9, 13.3, 0.208, 10.1, 0.158, 2.07, 0.032, 1.46, 0.023, 7.75, 0.121, 30, 51, 55, 106, 12, 15, 27, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, French Guiana, MNHN 1997.2206, 63.2, 11.8, 0.187, 9.29, 0.147, 1.80, 0.028, 1.79, 0.028, 6.77, 0.107, 30, 52, 60, 112, 12, 16, 28, 3, 2, 2, 4, 5, 6, 1, 1, 1, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, French Guiana, MNHN 1997.2207, 48, 10.1, 0.210, 7.51, 0.156, 1.59, 0.033, 1.38, 0.029, 5.37, 0.112, 30, 53, 61, 114, 12, 16, 28, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Brazil, CAS 49772, 89.9, 18.1, 0.201, 13.8, 0.154, 2.92, 0.032, 2.06, 0.023, 8.85, 0.098, 32, 52, 61, 113, 12, 15, 27, 2, 2, 2, 4, 6, 6, 1, 2, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 22268, 76.3, 14.8, 0.194, 11.5, 0.151, 2.62, 0.034, 1.45, 0.019, 8.11, 0.106, 30, 53, 61, 114, 14, 16, 30, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 22264, 80, 15.4, 0.193, 11.6, 0.145, 2.55, 0.032, 1.27, 0.016, N, N, 30, 52, 60, 112, N, N, N, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 22265, 81.2, 16.6, 0.204, 12.5, 0.154, 2.87, 0.035, 1.39, 0.017, 9.34, 0.115, 28, 51, 58, 109, 12, 16, 28, 2, 2, 2, 4, N, 5, N, 1, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 22267, 95, 17, 0.179, 13.1, 0.138, 2.92, 0.031, 1.39, 0.015, 8.64, 0.091, N, N, N, N, 12, 14, 26, 3, N, 2, 4, 5, 5, N, 1, N, N, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 93926, 87.3, 17.1, 0.196, 12.7, 0.145, 2.89, 0.033, 1.66, 0.019, 8.69, 0.100, 30, 52, 60, 112, 12, 14, 26, 2, 2, 2, 4, 5, 6, 2, 1, 1, 2, 1, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 93927, 77.7, 15.1, 0.194, 11.8, 0.152, 2.39, 0.031, 1.48, 0.019, 8.06, 0.104, 32, N, 62, N, 11, 15, 26, 2, 2, 2, 4, 5, 5, 1, 1, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 93928, 74.9, 15.4, 0.206, 11.5, 0.154, 2.67, 0.036, 1.37, 0.018, 9.2, 0.123, 30, 52, 60, 112, 12, 15, 27, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 93929, 63.4, 13.8, 0.218, 10.1, 0.159, 2.37, 0.037, 1.58, 0.025, 8.01, 0.126, N, 53, 59, 112, 12, 15, 27, 2, 2, 2, 4, 5, 5, 2, 1, 1, 2, 2, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 93930, 76.3, 14.3, 0.187, 10.3, 0.135, 2.41, 0.032, 1.64, 0.021, 8.92, 0.117, 31, 55, 61, 116, 12, 15, 27, 2, 2, 2, 4, 5, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, CM 22819, 63.3, 10.9, 0.172, 8.63, 0.136, 1.91, 0.030, 0.840, 0.013, N, N, 30, 55, 58, 113, 12, 15, 27, 2, 2, 2, 4, 4, 6, 1, 1, 1, 2, 2, 1, N, N, N, N, N, N, 1

*nigropunctata*, Venezuela, CM 7833, 74.8, 13.4, 0.179, 10.5, 0.140, 2.38, 0.032, 1.39, 0.019, N, N, 30, 55, 63, 118, 13, 16, 29, 3, 2, 2, 4, 4, 6, 1, 1, 2, 2, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, CM 7834, 66.7, 12.5, 0.187, 9.24, 0.139, 2.03, 0.030, 1.02, 0.015, N, N, 28, 53, 59, 112, 14, 16, 30, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, CM 7844, 68.3, 12.3, 0.180, 10.4, 0.152, 2.18, 0.032, N, N, N, N, 30, 53, 61, 114, 15, 17, 32, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, N, N, N, N, N, N, N, 1  
*nigropunctata*, Suriname, UF 63173, N, 17.4, N, 12.4, N, 3.07, N, 1.34, N, 8.76, N, 30, 52, 58, 110, 13, 16, 29, 2, 2, 2, 4, 5, 6, 1, 1, 2, 2, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, St. Vincent, BMNH 1946.8.15.12, 64.2, 12.7, 0.198, 9.49, 0.148, 2.46, 0.038, N, N, N, N, 30, 51, 59, 110, 12, 16, 28, 2, 2, 2, 4, 6, 6, 2, 1, 1, 2, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, St. Vincent, BMNH 1946.8.19.78, 92.5, 20.8, 0.225, 14.5, 0.157, 3.00, 0.032, 1.6, 0.017, 10, 0.108, 30, 48, 59, 107, 12, 15, 27, N, 2, 2, 3, 5, 5, 2, 1, 2, 1, 2, 1, N, N, N, N, N, 2  
*nigropunctata*, Venezuela, UIMNH 22266, 63, 12.2, 0.194, 9.63, 0.153, 2.13, 0.034, 1.14, 0.018, 6.77, 0.107, 32, 54, 62, 116, 13, 15, 28, 2, 2, 2, 3, 4, 4, 1, 1, 2, 1, 2, 1, N, N, N, N, N, 1  
*nigropunctata*, Venezuela, UIMNH 22269, 65.3, 11.2, 0.172, 8.33, 0.128, 1.99, 0.030, 1.12, 0.017, 6.91, 0.106, 28, 56, 55, 111, 10, 16, 26, 2, 3, 2, 4, 4, 5, 2, 1, N, 1, 2, 1, N, N, N, N, N, 1  
  
*nitida*, Culebra, UMMZ 239581, 80.2, 15.1, 0.188, 11.1, 0.138, 2.45, 0.031, 1.59, 0.020, 8.01, 0.100, 30, 59, 59, 118, 14, 18, 32, 2, 2, 2, 3, 4, 5, 2, 1, 2, 1, 1, 2, 1.81, 2.44, 0.742, 0.023, 0.030, 1  
*nitida*, Puerto Rico, UMMZ 73827, 76.5, 14.5, 0.190, 10.8, 0.141, 2.49, 0.033, 1.32, 0.017, 8.41, 0.110, 32, 60, 66, 126, 15, 18, 33, 2, 2, N, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.58, 2.66, 0.594, 0.021, 0.035, 2  
*nitida*, Puerto Rico, UPRRP 5055, 70.2, 12.5, 0.178, 8.91, 0.127, 2.18, 0.031, 1.40, 0.020, 7.29, 0.104, 30, 61, 64, 125, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 3, 0.970, 1.83, 0.530, 0.014, 0.026, 2  
*nitida*, Puerto Rico, UMMZ 73828, 95.5, 15.9, 0.166, 11.9, 0.125, 3.12, 0.033, 1.48, 0.015, 9.02, 0.094, 32, 63, 66, 129, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 1.89, 3.96, 0.477, 0.020, 0.041, 2  
*nitida*, Puerto Rico, UMMZ 73829, 80.7, 14.9, 0.185, 11, 0.136, 2.56, 0.032, 1.61, 0.020, 8.18, 0.101, 32, 58, N, N, 13, 18, 31, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 1, 1.81, 3.13, 0.578, 0.022, 0.039, 2  
*nitida*, Puerto Rico, MCZ R-6050, 84.5, 15.3, 0.181, 11.2, 0.133, 2.87, 0.034, 1.89, 0.022, 9.32, 0.110, 30, 55, 63, 118, 14, 15, 29, 2, 2, 2, 3, 4, 6, 1, 1, 2, 1, 1, 2, 1.52, 4.35, 0.349, 0.018, 0.051, 2  
*nitida*, Puerto Rico, MCZ R-6052A, 84.2, 15.4, 0.183, 11.3, 0.134, 2, 0.024, 1.33, 0.016, 8.80, 0.105, 32, 57, 70, 127, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.06, 3.59, 0.295, 0.013, 0.043, 2  
*nitida*, Puerto Rico, MCZ R-6052B, 72.9, 14, 0.192, 9.64, 0.132, 2.08, 0.029, 1.72, 0.024, 7.63, 0.105, 33, 57, 65, 122, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 0.96, 3.29, 0.292, 0.013, 0.045, 2  
*nitida*, Puerto Rico, MCZ R-36624, 79.7, 13.9, 0.174, 10.2, 0.128, 2.25, 0.028, 1.05, 0.013, 8.36, 0.105, 30, 57, 60, 117, 14, 18, 32, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 0.99, 2.28, 0.434, 0.012, 0.029, 2  
*nitida*, Puerto Rico, UPRRP 2702, 67.0, 12.8, 0.191, 9.37, 0.140, 1.95, 0.029, 1.04, 0.016, 7.13, 0.106, 32, 60, 63, 123, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 1.38, 2.27, 0.608, 0.021, 0.034, 2  
*nitida*, Puerto Rico, AMNH R-6462, 67.6, 12.6, 0.186, 8.78, 0.130, 2.36, 0.035, 1.17, 0.017, 7.95, 0.118, 30, 61, 64, 125, 14, 17, 31, 2, 2, 2, 4, 5, 6, 2, 1, 2, 2, 1, 3, 1, 3.18, 0.314, 0.015, 0.047, 2  
*nitida*, Puerto Rico, AMNH R-14007, 64.4, 13.3, 0.207, 9.43, 0.146, 2.3, 0.036, 1.52, 0.024, 8.18, 0.127, 30, 60, 66, 126, 14, 19, 33, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 0.81, 2.53, 0.320, 0.013, 0.039, 2

*nitida*, Puerto Rico, UPRRP 5401, 90.9, 16, 0.176, 11.9, 0.131, 2.81, 0.031, 1.43, 0.016, 9.59, 0.106, 28, 56, N, N, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1.5, 1.28, 4.36, 0.294, 0.014, 0.048, 2  
*nitida*, Puerto Rico, RT 4215, 87.1, 14.8, 0.170, 11.8, 0.135, 2.87, 0.033, 1.60, 0.018, 8.97, 0.103, 32, 59, 64, 123, 14, 18, 32, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.66, 2.68, 0.619, 0.019, 0.031, 2  
*nitida*, Puerto Rico, RT 8594, 42.5, 8.33, 0.196, 5.92, 0.139, 1.19, 0.028, 1.13, 0.027, 4.65, 0.109, 30, 56, 62, 118, 12, 14, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, N, N, N, N, N, 2  
*nitida*, Puerto Rico, CAS 54952, 50.4, 9.29, 0.184, 6.47, 0.128, 1.39, 0.028, 1.04, 0.021, 5.64, 0.112, 30, 59, 61, 120, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 2, N, 2, 1, 2, 0.87, 2.93, 0.297, 0.017, 0.058, 2

*N. sp. 1*, St. Vincent, BMNH 90.11.25.16, 77.8, 15.6, 0.201, 11.1, 0.143, 2.40, 0.031, N, N, N, N, 28, 51, 60, 111, 14, 16, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, BMNH 90.11.25.17, 61, 12.6, 0.207, 9.18, 0.150, 2.00, 0.033, N, N, N, N, 30, 51, 56, 107, 14, 17, 31, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, CAS 39439, 79.1, 14, 0.177, 11.6, 0.147, 2.15, 0.027, 1.42, 0.018, 8.83, 0.112, 32, 55, 61, 116, 14, 17, 31, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, N, N, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, MCZ R-6040a, 89.2, 17.7, 0.198, 14.4, 0.161, 2.99, 0.034, 1.95, 0.022, 10.7, 0.120, 28, 51, 59, 110, 14, 16, 30, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, MCZ R-6041 N, 81.3, 15.6, 0.192, 11.8, 0.145, 2.28, 0.028, 1.25, 0.015, N, N, 28, 50, 57, 107, 13, 18, 31, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, MCZ 185623, 88.7, 15.5, 0.175, 13.1, 0.148, 2.46, 0.028, 1.39, 0.016, 9.78, 0.110, 28, 51, 57, 108, 14, 17, 31, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, MCZ 185624, 90.7, 17.2, 0.190, 12.1, 0.133, 2.92, 0.032, 1.86, 0.021, 10.7, 0.118, 29, 53, 58, 111, 14, 18, 32, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, MCZ 185625, 100.4, 17, 0.169, 12.6, 0.125, 2.85, 0.028, 1.52, 0.015, 10.1, 0.101, 30, 55, 61, 116, 13, 16, 29, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, St. Vincent, MCZ 185626, 109, 18.0, 0.165, 13.6, 0.125, 2.88, 0.026, 1.57, 0.014, 11.1, 0.102, 28, 54, 62, 116, 13, 18, 31, 2, 2, 2, 4, 5, 6, 2, 2, 2, 1, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenadines, USNM 79131, 80.3, 15.6, 0.194, 12.0, 0.149, 2.6, 0.032, 1.17, 0.015, 9.99, 0.124, 28, 55, 58, 113, 14, 16, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenadines, KU 242047, 88.6, 17.2, 0.194, 12.8, 0.144, 2.74, 0.031, 1.10, 0.012, 11.0, 0.124, 30, 53, 59, 112, 14, 17, 31, 2, 2, 2, 4, 5, 7, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenadines, KU 242048, 95.3, 16.8, 0.176, 13.1, 0.137, 2.62, 0.027, 1.12, 0.012, 9.64, 0.101, 30, 55, 57, 112, 13, 16, 29, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenadines, KU 242051, 64.2, N, N, 9.60, 0.150, N, N, 1.20, 0.019, 7.64, 0.119, 30, 53, 59, 112, 13, 17, 30, 2, 2, 2, 4, 5, 7, 2, N, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenadines, MCZ 79097, 91.7, 17.8, 0.194, 14.3, 0.156, 2.93, 0.032, 1.28, 0.014, 9.97, 0.109, 28, 53, 57, 110, 13, 17, 30, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenadines, MCZ 79099, 66.5, 13.1, 0.197, 10.1, 0.152, 1.83, 0.028, 0.990, 0.015, 7.23, 0.109, 28, 51, 58, 109, 14, 16, 30, 3, 2, 2, 4, 5, 7, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenadines, MCZ 79100, 98.5, 18.1, 0.184, 14.0, 0.142, 2.83, 0.029, 1.15, 0.012, 10.4, 0.106, 28, 54, 60, 114, 14, 17, 31, 2, 2, 2, 3, 5, 6, 2, 2, 2, 1, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Grenada, MCZ R-79744, 94.7, 16.4, 0.173, 13.8, 0.146, 2.83, 0.030, 1.76, 0.019, 10.1, 0.107, 32, 53, 60, 113, 14, 16, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, N, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, UMMZ 79919, 103, 17.6, 0.171, 14.9, 0.145, 3.08, 0.030, 1.59, 0.015, 10.7, 0.104, 29, 51, 61, 112, 13, 17, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 1, 2, 1, N, N, N, N, N, 1

*N. sp. 1*, Trinidad, UMMZ 239606, 84.4, 16.4, 0.194, 12.0, 0.142, 2.75, 0.033, 1.41, 0.017, N, N, 30, 52, 54, 106, 13, N, N, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, MCZ R-79818, 65.7, 12.2, 0.186, 8.61, 0.131, 2.09, 0.032, 0.96, 0.015, 7.91, 0.120, 28, 52, 57, 109, 14, 15, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, AMNH R-101327, 77.7, 15, 0.193, 10.6, 0.136, 2.15, 0.028, 1.61, 0.021, 8.91, 0.115, 28, 59, 57, 116, 14, 16, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, CAS 39483, 88.9, 16.4, 0.184, 12.8, 0.144, 2.84, 0.032, 1.82, 0.020, 9.64, 0.108, 28, 52, 61, 113, 13, 18, 31, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, CAS 231775, 74.4, 13.8, 0.185, 10.5, 0.141, 1.99, 0.027, 1.47, 0.020, 7.86, 0.106, 32, 53, 62, 115, 14, 16, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, MCZ 6039, 88.2, 17.2, 0.195, 13.6, 0.154, 2.67, 0.030, 1.51, 0.017, 9.30, 0.105, 30, 53, 59, 112, 13, 16, 29, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, MCZ 100481, 94.5, 17.5, 0.185, 12.6, 0.133, 2.79, 0.030, 1.57, 0.017, 10.1, 0.107, 30, 55, 61, 116, 14, 16, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, CM 6565, 91.3, 16.4, 0.180, 12.7, 0.139, 2.66, 0.029, 1.23, 0.013, 10.1, 0.111, N, 54, N, N, 13, 16, 29, 2, N, N, 4, 5, 6, 2, 2, N, N, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, KU 242013, 78.7, 16.1, 0.205, 12, 0.152, 2.86, 0.036, 1.14, 0.014, 9.25, 0.118, 30, 52, 57, 109, 14, 16, 30, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 1*, Trinidad, MCZ R-8994, 106, 17.3, 0.163, 14.9, 0.141, 3.30, 0.031, 1.26, 0.012, 10.7, 0.101, 30, 55, 60, 115, 14, 17, 31, 2, 2, 2, 4, 5, 6, 2, 2, 2, 1, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Tobago, KU 242009, 93, 16.4, 0.176, 12.3, 0.132, 2.65, 0.028, 0.950, 0.010, 10.7, 0.115, 28, 55, 62, 117, 14, 17, 31, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Tobago, KU 242010, 90.4, 18.0, 0.199, 13.4, 0.148, 2.87, 0.032, 1.19, 0.013, 10.7, 0.118, 30, 53, 64, 117, 12, 17, 29, 2, 2, 2, 4, 6, 6, 2, 2, 2, 1, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Tobago, KU 242011, 93.0, 18.0, 0.194, 13.2, 0.142, 2.61, 0.028, 1.36, 0.015, 11.8, 0.127, 30, 52, 65, 117, 14, 18, 32, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
*N. sp. 1*, Tobago, MCZ 185622, 65.5, 13, 0.198, 9.15, 0.140, 1.94, 0.030, 1.10, 0.017, 7.98, 0.122, 28, 55, 59, 114, 14, 16, 30, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
  
*N. sp. 2*, Redonda, ANSP 9517, 100.1, 16.1, 0.161, 14.1, 0.141, 2.89, 0.029, 2.42, 0.024, 9.44, 0.094, 30, 53, 59, 112, 14, 15, 29, 2, 2, 2, 4, 5, 5, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
  
*N. sp. 3*, Margarita, USNM 217141, 118.8, 20.3, 0.171, 15, 0.126, 3.48, 0.029, 1.35, 0.011, 10.76, 0.091, 30, 54, 66, 120, 15, 17, 32, 2, 2, 2, 4, 6, 6, 1, 2, 2, 2, 2, 1, N, N, N, N, N, 1  
  
*N. sp. 4*, Guadeloupe, USNM 11249a, 90.8, 15.9, 0.175, 11.8, 0.130, 2.34, 0.026, 1.14, 0.013, 10.8, 0.119, 32, 58, 68, 126, 15, 18, 33, 2, 2, 2, 2, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 2  
*N. sp. 4*, Guadeloupe, USNM 56045, 102, 17.6, 0.172, 12.8, 0.125, 2.52, 0.025, 1.45, 0.014, 10.4, 0.102, 32, 57, 65, 122, 14, 17, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 4*, Guadeloupe, USNM 56046, 67.4, 12.6, 0.187, 8.82, 0.131, 1.58, 0.023, 1.40, 0.021, 7.71, 0.114, 32, 61, 67, 128, 14, 18, 32, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 4*, Guadeloupe, USNM 11175, 85.8, 17, 0.198, 11.6, 0.135, 2.95, 0.034, 1.43, 0.017, 10.9, 0.127, 30, 54, 62, 116, 15, 18, 33, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 2  
*N. sp. 4*, Guadeloupe, BMNH 1920.1.20.398, 84.3, 15.3, 0.181, 11.7, 0.139, 2.67, 0.032, N, N, N, N, 34, 56, 64, 120, 15, 18, 33, 2, 2, 2, 3, 4, 6, 1, 1, 1, 1, 1, 1, N, N, N, N, N, 1



*N. sp. 4*, Guadeloupe, FHM 212, 106, 17.3, 0.163, 12.7, 0.120, 3.13, 0.030, 1.36, 0.013, 9.30, 0.088, 32, 60, 68, 128, 14, 21, 35, 2, 2, 2, 3, 4, 5, 2, 1, 2, 1, 1, 1, 0.88, 5.66, 0.155, 0.008, 0.053, 2  
*N. sp. 4*, Guadeloupe, FHM 213, 100, 17.3, 0.173, 11.6, 0.116, 2.63, 0.026, 1.74, 0.017, 8.84, 0.088, 34, 63, 70, 133, 14, 18, 32, 3, 2, 2, 3, 4, 5, 2, 1, 2, 1, 1, 1, 1.82, 4.75, 0.383, 0.018, 0.048, 2  
*N. sp. 4*, Guadeloupe, FHM 214, 94.3, 16.0, 0.170, 11.2, 0.119, 2.82, 0.030, 1.72, 0.018, 9.17, 0.097, 32, 61, 67, 128, 14, 19, 33, 4, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, 0.560, 5.54, 0.101, 0.006, 0.059, 2  
*N. sp. 4*, Guadeloupe, KU 242043, 96.7, 17.8, 0.184, 12.7, 0.131, 2.69, 0.028, 1.08, 0.011, 11.2, 0.116, 32, 58, 70, 128, 12, 17, 29, 2, 2, 2, 3, 4, 5, 2, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 4*, Guadeloupe, KU 242044, 98.0, 17.6, 0.180, 12.5, 0.128, 2.63, 0.027, 1, 0.010, 10.9, 0.111, 32, 62, 70, 132, 14, 17, 31, 2, 2, 2, 3, 4, 5, 2, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 4*, Guadeloupe, KU 242045, 94.1, 17.35, 0.184, 12.8, 0.136, 2.41, 0.026, 1.38, 0.015, 9.57, 0.102, 34, 62, 68, 130, 13, 16, 29, 2, 2, 2, 3, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 4*, Guadeloupe, KU 242046, 98.1, 18.1, 0.185, 13.3, 0.136, 2.81, 0.029, 1.42, 0.014, 10.2, 0.104, 32, 62, 70, 132, 15, 18, 33, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
  
*N. sp. 5*, Hispaniola, UMMZ 83305, 85.4, 16.4, 0.192, 11.1, 0.130, 2.96, 0.035, 1.25, 0.015, 9.45, 0.111, 30, 56, 69, 125, 13, 18, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, 0.870, 5.67, 0.153, 0.010, 0.066, 1  
*N. sp. 5*, Hispaniola, UMMZ 239592, 92.6, 16.4, 0.177, 10.7, 0.116, 2.85, 0.031, 1.19, 0.013, 9.92, 0.107, 30, 58, 69, 127, 13, 17, 30, 2, 2, 2, 3, 4, 6, 1, 2, 2, 1, 1, 1, 0.72, 6.51, 0.111, 0.008, 0.070, 1  
*N. sp. 5*, Hispaniola, UMMZ 239593, 37.5, 9.56, 0.255, 6.08, 0.162, 1.72, 0.046, 0.74, 0.020, 4.18, 0.111, 30, 54, 69, 123, 14, 18, 32, 2, 2, 2, 3, 4, 6, 1, 2, 2, 1, 1, 1, 0.41, 3.41, 0.120, 0.011, 0.091, 1  
*N. sp. 5*, Hispaniola, UMMZ 239594, 39.9, 9.79, 0.245, 5.96, 0.149, 1.66, 0.042, 0.85, 0.021, 4.68, 0.117, 32, 59, 71, 130, 14, 16, 30, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, 0.600, 3.19, 0.188, 0.015, 0.080, 1  
*N. sp. 5*, Hispaniola, UMMZ 239595, 37.8, 9.24, 0.244, 5.68, 0.150, 1.57, 0.042, 0.86, 0.023, 4.52, 0.120, 30, 62, 76, 138, 14, 17, 31, 2, 2, 2, 3, 5, 5, 1, 2, 2, 1, 1, 1, 0.52, 3.30, 0.158, 0.014, 0.087, 1  
*N. sp. 5*, Hispaniola, UMMZ 239596, 38.1, 9.44, 0.248, 5.98, 0.157, 1.75, 0.046, 0.890, 0.023, 4.43, 0.116, 32, 58, 68, 126, 14, 17, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, 0.650, 3.41, 0.191, 0.017, 0.090, 1  
*N. sp. 5*, Hispaniola, UMMZ 239597, 35.8, 9.33, 0.261, 5.64, 0.158, 1.42, 0.040, 0.820, 0.023, 4.69, 0.131, 30, 58, 69, 127, 14, 19, 33, 2, 2, 2, 3, 5, 6, 1, 2, 2, 1, 1, 1, 0.480, 3.23, 0.149, 0.013, 0.090, 1  
*N. sp. 5*, Hispaniola, UMMZ 239598, 86.6, 16.0, 0.185, 12.1, 0.140, 2.78, 0.032, 0.960, 0.011, 9.48, 0.109, 30, 58, 67, 125, 13, 18, 31, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
  
*N. sp. 6*, Montserrat, USNM 30850A, 98.0, 16.8, 0.171, 12.1, 0.123, 2.74, 0.028, 1.46, 0.015, 9.32, 0.095, 34, 63, 71, 134, 15, 18, 33, 2, 2, 2, 3, 4, 6, 1, 2, 2, 1, 1, 1, 0.780, 4.93, 0.158, 0.008, 0.050, 1  
*N. sp. 6*, Montserrat, USNM 30850B, 33.3, 8.40, 0.252, 5.58, 0.168, 1.17, 0.035, 0.830, 0.025, 4.60, 0.138, 32, 57, 69, 126, 14, 17, 31, 2, 2, 2, 3, 3, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1

*N. sp. 6*, Montserrat, USNM 30850C, 30.1, 8.58, 0.285, 5.85, 0.194, 1.15, 0.038, 1.13, 0.038, 4.59, 0.152, 32, 58, 66, 124, 14, 17, 31, 2, 2, 2, 3, 3, 6, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 6*, Montserrat, USNM 30850D, 33.5, 8.87, 0.265, 5.70, 0.170, 1.17, 0.035, 0.890, 0.027, 4.38, 0.131, 32, 62, 66, 128, 14, 17, 31, 2, 2, 2, 3, 3, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 6*, Montserrat, USNM 30850E, 32.2, 8.63, 0.268, 5.69, 0.177, 1.08, 0.034, 0.950, 0.030, 4.46, 0.139, 34, 62, 67, 129, 14, 16, 30, 2, 2, 2, 3, 3, 5, 1, 2, 2, 1, 1, 2, N, N, N, N, N, 1  
*N. sp. 6*, Montserrat, USNM 30850F, 31.4, 8.92, 0.284, 5.64, 0.180, 1.15, 0.037, 0.92, 0.029, 4.57, 0.146, 34, 60, 67, 127, 14, 17, 31, 2, 2, 2, 3, 3, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 6*, Montserrat, MCZ R-125464, 85.3, 15.9, 0.186, 11.0, 0.129, 2.70, 0.032, 1.32, 0.015, 9.71, 0.114, 34, 58, 67, 125, 15, 17, 32, 2, 2, 2, 3, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, 1  
*N. sp. 6*, Montserrat, BMNH 94.9.20.8 N, 81.3, 15.1, 0.186, 10.7, 0.132, 2.71, 0.033, N, N, N, N, 32, 59, 64, 123, 14, 18, 32, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, 0.71, N, N, N, N, 1

*N. sp. 7*, Marie Galante, ANSP 9413, 78.3, 12.4, 0.158, 9.66, 0.123, 2.00, 0.026, 1.66, 0.021, 7.45, 0.095, 30, 62, 63, 125, 10, 14, 24, 3, 2, 2, 4, 5, 6, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 1

*N. sp. 8*, St. Vincent, MCZ R-38196, 74.6, 13.9, 0.186, 10.5, 0.141, 2.30, 0.031, 1.11, 0.015, 7.40, 0.099, 30, 58, 64, 122, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2  
*N. sp. 8*, Grenadines, KU 242049, 75, 13.5, 0.180, 10.7, 0.143, 1.92, 0.026, 0.890, 0.012, 7.2, 0.096, 30, 59, 66, 125, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, N, N, N, N, N, N, 1  
*N. sp. 8*, Grenadines, KU 242050, 79.4, 15.2, 0.191, 11.9, 0.150, 2.23, 0.028, 0.790, 0.010, 7.8, 0.098, 30, 59, 68, 127, 12, 17, 29, 2, 2, 2, 4, 5, 5, 1, 1, 2, 2, N, 1, N, N, N, N, N, 1  
*N. sp. 8*, Grenadines, MCZ 79098, 73.2, 12.7, 0.173, 9.82, 0.134, 1.91, 0.026, 0.920, 0.013, 7.16, 0.098, 30, 60, 61, 121, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Grenada, USNM 72658, 71.5, 13.4, 0.187, 10.7, 0.150, 2.20, 0.031, 1.52, 0.021, 7.27, 0.102, 30, 58, 65, 123, 15, 17, 32, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Grenada, USNM 72659, 74.5, 13.7, 0.184, 10.6, 0.142, 2.05, 0.028, 1.17, 0.016, 7.25, 0.097, 30, 59, 65, 124, 13, 17, 30, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 2  
*N. sp. 8*, Trinidad, MCZ 100482, 89.0, 14.9, 0.167, 11.9, 0.134, 2.35, 0.026, 1.20, 0.013, 7.83, 0.088, 30, 59, 64, 123, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Trinidad, MCZ 100483, 64.2, 11.7, 0.182, 8.87, 0.138, 1.65, 0.026, 1.12, 0.017, 6.72, 0.105, 30, 63, 64, 127, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Tobago, MCZ R-12079, 80.9, 15.1, 0.187, 11.1, 0.137, 2.41, 0.030, 1.44, 0.018, 7.62, 0.094, 32, 59, 63, 122, 12, 16, 28, 2, 2, 2, 4, 4, 6, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Tobago, MCZ R-12080, 87.9, 14.7, 0.167, 11.4, 0.130, 2.50, 0.028, 1.24, 0.014, 7.00, 0.080, 31, 62, 67, 129, 12, 14, 26, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Tobago, MCZ 55668, 82.5, 14.0, 0.170, 9.86, N, 2.04, 0.025, 0.950, 0.012, 7.70, 0.093, 32, 60, 64, 124, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Tobago, KU 242012, 73.8, 13.7, 0.186, 10.7, 0.145, 2.08, 0.028, 0.940, 0.013, 7.43, 0.101, 30, 59, 60, 119, 14, 15, 29, 2, 2, 2, 4, 5, 6, 1, 2, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Grenada, MCZ R-79743, 51.8, 10.4, 0.201, 7.55, 0.146, 1.52, 0.029, 0.840, 0.016, 5.43, 0.105, 30, 57, 57, 114, 12, 14, 26, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*N. sp. 8*, Grenada, MCZ R-4514, 74.5, 13.5, 0.181, 10.1, 0.136, 2.32, 0.031, 1.17, 0.016, 8.47, 0.114, 30, 53, 58, 111, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 2, 1, N, N, N, N, N, 1

*N. sp. 9*, Great Corn Island, MCZ 26976, 77.4, 14.4, 0.186, 10.8, 0.140, 2.1, 0.027, 1.05, 0.014, 9.59, 0.124, 30, 57, 60, 117, 12, 17, 29, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 2

*N. sp. 10*, Roatan, TCWC 21955, 90.2, 14.2, 0.157, 11.4, 0.126, 2.15, 0.024, 1.43, 0.016, 7.57, 0.084, 32, 58, 67, 125, 13, 15, 28, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1

*N. sp. 11*, Anegada, UMMZ 239502, 56.7, 9.17, 0.162, 7.43, 0.131, 1.69, 0.030, 1.04, 0.018, 5.42, 0.096, 30, 62, 63, 125, 13, 17, 30, 2, 2, 3, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.88, 1.02, 1.843, 0.033, 0.018, 2

*N. sp. 11*, Anegada, UMMZ 239503, 57.8, 9.63, 0.167, 6.72, 0.116, 1.67, 0.029, 1.01, 0.017, 5.15, 0.089, 30, 62, 62, 124, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.82, 0.880, 2.07, 0.031, 0.015, 2

*N. sp. 11*, Anegada, UMMZ 239504, 54.0, 9.74, 0.180, 6.80, 0.126, 1.57, 0.029, 0.94, 0.017, 5.50, 0.102, 28, 62, 64, 126, 12, 17, 29, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.74, 0.84, 2.071, 0.032, 0.016, 2

*N. sp. 11*, Anegada, UMMZ 239505, 52.5, 9.46, 0.180, 6.50, 0.124, 1.54, 0.029, 0.99, 0.019, 5.34, 0.102, 32, 63, 67, 130, N, 16, N, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 1, 1.83, 0.83, 2.205, 0.035, 0.016, 2

*N. sp. 11*, Anegada, UMMZ 239506, 61.8, 9.76, 0.158, 7.25, 0.117, 1.48, 0.024, 1.07, 0.017, 5.75, 0.093, 32, 64, 65, 129, 13, 17, 30, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.01, 0.98, 2.051, 0.033, 0.016, 2

*N. sp. 11*, Anegada, UMMZ 239507, 58.9, 9.70, 0.165, 6.97, 0.118, 1.48, 0.025, 0.770, 0.013, 5.36, 0.091, 32, 60, 59, 119, 11, 13, 24, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.32, 0.870, 2.67, 0.039, 0.015, 2

*N. sp. 11*, Anegada, UMMZ 239508, 68.2, 10.8, 0.158, 7.99, 0.117, 1.72, 0.025, 1.09, 0.016, 6.57, 0.096, 32, 62, 63, 125, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.14, 0.94, 2.277, 0.031, 0.014, 2

*N. sp. 11*, Anegada, UMMZ 239509, 60.7, 10.1, 0.166, 7.37, 0.121, 1.57, 0.026, 1.17, 0.019, 5.65, 0.093, 32, N, N, N, 11, 15, 26, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.88, 1.39, 1.353, 0.031, 0.023, 2

*N. sp. 11*, Anegada, UMMZ 239510, 48.1, 8.72, 0.181, 5.87, 0.122, 1.29, 0.027, 0.89, 0.019, 5.15, 0.107, 30, 60, 64, 124, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.87, 0.62, 3.008, 0.039, 0.013, 2

*N. sp. 11*, Anegada, UMMZ 239511, 54.3, 9.41, 0.173, 6.93, 0.128, 1.58, 0.029, 1.14, 0.021, 5.72, 0.105, 32, 62, 65, 127, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2, 1.01, 1.98, 0.037, 0.019, 2

*N. sp. 11*, Anegada, UMMZ 239512, 58.2, 9.77, 0.168, 7.50, 0.129, 1.64, 0.028, 0.990, 0.017, 5.82, 0.100, 30, 61, 67, 128, 14, 17, 31, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.22, 0.940, 2.36, 0.038, 0.016, 2

*N. sp. 11*, Anegada, UMMZ 239513, 66.5, 10.5, 0.158, 8.13, 0.122, 1.61, 0.024, 1.1, 0.017, 5.78, 0.087, 30, 62, 61, 123, 11, 16, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.06, 1.04, 1.981, 0.031, 0.016, 2

*N. sp. 11*, Anegada, UMMZ 239514, 62.7, 10.1, 0.161, 7.11, 0.113, 1.83, 0.029, 1.04, 0.017, 5.51, 0.088, 33, 63, 62, 125, 13, 17, 30, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.07, 0.830, 2.49, 0.033, 0.013, 2

*N. sp. 11*, Anegada, UMMZ 239515, 56.8, 9.89, 0.174, 7.02, 0.124, 1.55, 0.027, 1.00, 0.018, 5.59, 0.098, 32, 63, 67, 130, 11, 16, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2, 0.95, 2.11, 0.035, 0.017, 2  
*N. sp. 11*, Anegada, UMMZ 239516, 62.4, 10.5, 0.168, 7.34, 0.118, 1.61, 0.026, 1.15, 0.018, 5.74, 0.092, 30, 62, 63, 125, 11, 13, 24, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.91, 0.960, 1.99, 0.031, 0.015, 2  
*N. sp. 11*, Anegada, UMMZ 239517, 61.8, 10.7, 0.173, 7.49, 0.121, 1.83, 0.030, 0.94, 0.015, 5.98, 0.097, 30, 63, 61, 124, 12, 15, 27, 2, 2, 2, 4, 5, 5, 2, 1, 2, 2, 1, 2, 2.11, 1.09, 1.94, 0.034, 0.018, 2  
*N. sp. 11*, Anegada, UMMZ 239518, 63.0, 10.1, 0.160, 7.31, 0.116, 1.59, 0.025, 0.920, 0.015, 5.70, 0.090, 32, 61, 65, 126, 10, 14, 24, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.01, 0.840, 2.39, 0.032, 0.013, 2  
*N. sp. 11*, Anegada, UMMZ 239519, 64.3, 10.7, 0.166, 7.49, 0.116, 1.70, 0.026, 1.05, 0.016, N, N, 28, 62, 65, 127, 11, N, N, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.07, 1.12, 1.85, 0.032, 0.017, 2  
*N. sp. 11*, Anegada, UMMZ 239520, 66.1, 10.5, 0.159, 7.24, 0.110, 1.63, 0.025, 0.83, 0.013, 5.75, 0.087, 30, 62, 64, 126, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, N, 2, 2.39, 0.63, 3.79, 0.036, 0.010, 2  
*N. sp. 11*, Anegada, UMMZ 239521, 60.2, 10.4, 0.173, 7.24, 0.120, 1.58, 0.026, 1.17, 0.019, 5.54, 0.092, 30, 60, 60, 120, 13, 17, 30, 2, 2, 2, 4, 5, 6, 2, 1, 2, 1, 1, 2, 2.03, 0.9, 2.26, 0.034, 0.015, 2  
*N. sp. 11*, Anegada, UMMZ 239522, 33.7, 6.92, 0.205, 4.56, 0.135, 1.01, 0.030, 0.690, 0.020, 3.53, 0.105, 32, 59, 59, 118, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.4, 0.57, 2.46, 0.042, 0.017, 2  
*N. sp. 11*, Anegada, UMMZ 239523, 59.8, 9.71, 0.162, 7.31, 0.122, 1.55, 0.026, 0.97, 0.016, 5.31, 0.089, 31, 62, 67, 129, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.09, 0.88, 2.375, 0.035, 0.015, 2  
*N. sp. 11*, Anegada, UMMZ 239524, 54.1, 9.12, 0.169, 6.35, 0.117, 1.33, 0.025, 0.920, 0.017, 4.60, 0.085, 30, 65, 67, 132, 13, 15, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.87, 0.87, 2.15, 0.035, 0.016, 2  
*N. sp. 11*, Anegada, UMMZ 80583, 67.0, 10.3, 0.154, 7.16, 0.107, 1.43, 0.021, 1.06, 0.016, 5.59, 0.083, 32, 64, 64, 128, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.13, 1.02, 2.09, 0.032, 0.015, 2  
*N. sp. 11*, Anegada, UMMZ 239525, 30.9, 6.81, 0.220, 4.37, 0.141, 0.940, 0.030, 0.710, 0.023, 3.72, 0.120, 32, 58, 63, 121, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.44, 0.590, 2.44, 0.047, 0.019, 2  
*N. sp. 11*, Anegada, UMMZ 239526, 54.5, 9.39, 0.172, 6.23, 0.114, 1.33, 0.024, 0.73, 0.013, 5.14, 0.094, 30, 63, 61, 124, 10, 14, 24, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.68, 0.960, 1.75, 0.031, 0.018, 2  
*N. sp. 11*, Anegada, UMMZ 239527, 32.3, 6.58, 0.204, 4.35, 0.135, 0.86, 0.027, 0.73, 0.023, 3.71, 0.115, 32, 62, 61, 123, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.33, 0.58, 2.29, 0.041, 0.018, 2  
*N. sp. 11*, Anegada, KU 242057, 63.7, 10.8, 0.170, 8.07, 0.127, 1.59, 0.025, 0.750, 0.012, 5.72, 0.090, 30, 59, 63, 122, 10, 14, 24, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.12, 0.810, 2.62, 0.033, 0.013, 2  
*N. sp. 11*, Anegada, KU 242058, 59.7, 10.7, 0.179, 7.79, 0.130, 1.6, 0.027, 0.880, 0.015, 6.14, 0.103, 31, 61, 63, 124, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 3, 1.79, 1.14, 1.57, 0.030, 0.019, 2  
*N. sp. 11*, Anegada, KU 242059, 70.4, 11.2, 0.159, 8.54, 0.121, 1.75, 0.025, 0.98, 0.014, 6, 0.085, 31, 63, 62, 125, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.28, 1.19, 1.92, 0.032, 0.017, 2

*N. sp. 11*, Anegada, KU 242060, 58.2, 9.81, 0.169, 6.94, 0.119, 1.53, 0.026, 0.77, 0.013, 5.92, 0.102, 32, 63, 62, 125, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.89, 0.700, 2.70, 0.032, 0.012, 1  
*N. sp. 11*, Anegada, KU 242061, 69.8, 11.3, 0.162, 8.21, 0.118, 1.70, 0.024, 0.670, 0.010, 6.45, 0.092, 32, 62, 64, 126, 10, 14, 24, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.33, 0.850, 2.741, 0.033, 0.012, 2  
*N. sp. 11*, Anegada, KU 242062, 65.9, 10.7, 0.162, 8.03, 0.122, 1.56, 0.024, 0.730, 0.011, 5.80, 0.088, 30, 63, 62, 125, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.83, 1.29, 1.42, 0.028, 0.020, 2  
*N. sp. 11*, Anegada, KU 242063, 67.8, 11.5, 0.170, 8.35, 0.123, 1.71, 0.025, 0.700, 0.010, 5.85, 0.086, 31, 63, 70, 133, 11, 15, 26, 2, 3, 2, 4, 4, 6, 2, 1, 1, 2, 1, 2, 2.07, 1.14, 1.816, 0.031, 0.017, 2  
*N. sp. 11*, Anegada, MCZ 42381, 67.9, 10.9, 0.161, 8.29, 0.122, 1.63, 0.024, 0.870, 0.013, 6.13, 0.090, 33, 61, 68, 129, 10, 16, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1, 2.12, 1.13, 1.88, 0.031, 0.017, 2  
*N. sp. 11*, Anegada, CM 17357, 60.1, 11.2, 0.186, 7.98, 0.133, 2.01, 0.033, 1.02, 0.017, 5.42, 0.090, N, N, 67, N, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 3, 1.89, 1.19, 1.59, 0.031, 0.020, 2  
*N. sp. 11*, Anegada, CM 17358, 47.4, 8.41, 0.177, 6.10, 0.129, 1.34, 0.028, 0.680, 0.014, 4.71, 0.099, 32, 66, 67, 133, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 3, 1.67, 0.750, 2.227, 0.035, 0.016, 2  
  
*N. sp. 12*, Turks and Caicos, KU 242113, 66.3, 10.4, 0.157, 7.61, 0.115, 1.52, 0.023, 0.88, 0.013, 5.97, 0.090, 28, 58, 56, 114, 10, 16, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.06, 3.09, 0.343, 0.016, 0.047, 1  
*N. sp. 12*, Turks and Caicos, KU 242114, 67.5, 10.4, 0.154, 7.89, 0.117, 1.58, 0.023, 1.03, 0.015, 6.68, 0.099, 30, 56, 57, 113, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 2, 2, 1, 1, 2, 1.59, 2.66, 0.598, 0.024, 0.039, 1  
*N. sp. 12*, Turks and Caicos, KU 242115, 71.0, 11.3, 0.159, 8.64, 0.122, 1.85, 0.026, 1.45, 0.020, 6.69, 0.094, 30, 56, 59, 115, 12, 17, 29, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.51, 2.71, 0.557, 0.021, 0.038, 1  
*N. sp. 12*, Turks & Caicos, UMMZ 117392, 61.7, 10.7, 0.173, 7.63, 0.124, 1.98, 0.032, 1.05, 0.017, 6.91, 0.112, 28, 56, 61, 117, 14, 17, 31, 2, 2, 2, 4, 4, 5, 2, 2, 2, 1, 1, 2, 1.29, 2.54, 0.508, 0.021, 0.041, 2  
*N. sp. 12*, Turks and Caicos, UMMZ 117393, 59.9, 10.5, 0.175, 7.44, 0.124, 1.66, 0.028, 1.11, 0.019, 6.06, 0.101, 28, 58, 62, 120, 11, 15, 26, 2, 2, 2, 3, 4, 5, 2, 2, 2, 2, 1, 2, 1.61, 2.00, 0.805, 0.027, 0.033, 2  
*N. sp. 12*, Turks & Caicos, UMMZ 117395, 49.9, 9.49, 0.190, 6.49, 0.130, 1.74, 0.035, 0.96, 0.019, 5.27, 0.106, 31, 56, N N, N, 12, 16, 28, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 2, 1.46, 1.98, 0.737, 0.029, 0.040, 2  
*N. sp. 12*, Turks & Caicos, UMMZ 117396, 69.9, 10.7, 0.153, 7.81, 0.112, 1.83, 0.026, 1.01, 0.014, 6.48, 0.093, 28, 61, 63, 124, 11, 15, 26, 2, 2, 2, 4, 3, 5, 2, 2, 2, 1, 1, 2, 1.63, 2.6, 0.627, 0.023, 0.037, 1  
*N. sp. 12*, Turks & Caicos, USNM 81448, 56.3, 10.2, 0.181, 7.66, 0.136, 2.06, 0.037, 1.02, 0.018, 6.64, 0.118, 30, 58, 62, 120, 12, 17, 29, 2, 2, N, 4, N, N, 2, 1, 2, 1, 1, 2, 1.59, 2.92, 0.545, 0.028, 0.052, 2  
*N. sp. 12*, Turks and Caicos, KU 242100, 61.0, 10.9, 0.179, 9.00, 0.148, 1.70, 0.028, 1.02, 0.017, 7.42, 0.122, 28, 57, N, N, 10, 15, 25, 2, 2, 2, 4, 4, 5, 2, 2, 2, 1, 1, 2, 1.48, 3.02, 0.490, 0.024, 0.050, 1

*N. sp. 12*, Turks and Caicos, KU 242101, 69.6, 11.5, 0.165, 8.55, 0.123, 1.83, 0.026, 1.07, 0.015, 5.91, 0.085, 30, 59, 60, 119, 10, 13, 23, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.24, 4.19, 0.296, 0.018, 0.060, 1

*N. sp. 12*, Turks and Caicos, KU 242102, 65.7, 10.4, 0.158, 7.84, 0.119, 1.69, 0.026, 1.00, 0.015, 6.36, 0.097, 30, 58, 59, 117, 11, 16, 27, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.03, 3.96, 0.260, 0.016, 0.060, 1

*N. sp. 12*, Turks and Caicos, KU 242103, 70.0, 11.0, 0.157, 8.51, 0.122, 1.64, 0.023, 1.05, 0.015, 5.74, 0.082, 30, 56, 61, 117, 10, 16, 26, 2, 2, 2, 3, 3, 6, 1, 1, 2, 1, 1, 2, 1.42, 3.85, 0.369, 0.020, 0.055, 1

*N. sp. 12*, Turks and Caicos, KU 242104, 77.6, 12.2, 0.157, 9.04, 0.116, 1.81, 0.023, 1.07, 0.014, 6.28, 0.081, 30, 58, 58, 116, 10, 15, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.46, 3.79, 0.385, 0.019, 0.049, 1

*N. sp. 12*, Turks and Caicos, KU 242106, 62.1, 10.8, 0.174, 7.88, 0.127, 1.74, 0.028, 1.11, 0.018, 6.67, 0.107, 30, 58, 57, 115, 11, 16, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.50, 3.20, 0.469, 0.024, 0.052, 1

*N. sp. 12*, Turks and Caicos, KU 242107, 69.6, 12.2, 0.175, 8.55, 0.123, 1.86, 0.027, 1.06, 0.015, 6.82, 0.098, 30, 56, 60, 116, 12, 17, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 1.39, 3.56, 0.390, 0.020, 0.051, 1

*N. sp. 12*, Turks and Caicos, KU 242108, 62.2, 10.3, 0.166, 7.31, 0.118, N, N, 0.980, 0.016, 5.77, 0.093, 30, 58, 58, 116, 11, 15, 26, 2, 2, 2, 4, N, N, 2, 1, 2, 1, 1, 2, 1.31, 3.40, 0.385, 0.021, 0.055, 1

*N. sp. 12*, Turks and Caicos, KU 242109, 65.7, 11.1, 0.169, 8.01, 0.122, 1.52, 0.023, 1.11, 0.017, N, N, 30, 59, 63, 122, 10, N, N, 2, 2, 2, 4, 4, N, 2, 1, 2, 1, 1, 2, 1.45, 3.16, 0.459, 0.022, 0.048, 1

*N. sp. 12*, Turks and Caicos, KU 242110, 48.6, 8.6, 0.177, 6.71, 0.138, 1.21, 0.025, 1.11, 0.023, 5.08, 0.105, 30, 59, 65, 124, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.24, 2.28, 0.544, 0.026, 0.047, 1

*N. sp. 12*, Turks and Caicos, KU 242111, 73.2, 11.1, 0.152, 8.02, 0.110, 1.58, 0.022, 1.20, 0.016, 7.06, 0.096, 30, 62, 63, 125, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.25, 3.72, 0.336, 0.017, 0.051, 1

*N. sp. 12*, Turks and Caicos, KU 242112, 71.6, 11.2, 0.156, 8.52, 0.119, 1.60, 0.022, 1.11, 0.016, 6.31, 0.088, 30, 59, 63, 122, 11, 16, 27, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.69, 3.30, 0.512, 0.024, 0.046, 1

*N. sp. 12*, Turks and Caicos, KU 242105, 69.2, 11.3, 0.163, 8.57, 0.124, 1.86, 0.027, 1.02, 0.015, 6.70, 0.097, 30, 56, 59, 115, 12, 14, 26, 2, 2, 2, 4, 3, 5, 2, 2, 2, 2, 1, 2, 1.40, 3.33, 0.420, 0.020, 0.048, 1

*N. sp. 12*, Turks and Caicos, KU 242098, 59.8, 10.3, 0.172, 7.93, 0.133, 1.43, 0.024, 0.950, 0.016, 6.25, 0.105, 32, 60, 64, 124, 10, 15, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.45, 2.76, 0.525, 0.024, 0.046, 2

*N. sp. 12*, Turks and Caicos, KU 242099, 66.8, 11.3, 0.169, 8.71, 0.130, 1.92, 0.029, 1.38, 0.021, 7.81, 0.117, 30, 58, 60, 118, 12, 19, 31, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.09, 4.47, 0.244, 0.016, 0.067, 1

*N. sp. 12*, Turks & Caicos, MPM 21932, 70.2, 10.9, 0.155, 8.04, 0.115, 1.97, 0.028, 1.14, 0.016, 5.97, 0.085, 30, 62, 64, 126, 11, 14, 25, 2, 2, 2, 4, 4, 5, 1, 2, 2, 1, 1, 2, 1.58, 2.46, 0.642, 0.023, 0.035, 1

*N. sp. 12*, Turks & Caicos, MPM 21933, 61.8, 10.6, 0.172, 6.84, 0.111, 1.75, 0.028, 0.840, 0.014, 6.62, 0.107, 28, 57, 59, 116, 12, 14, 26, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 2, 1.3, 2.44, 0.533, 0.021, 0.039, 1

*N. sp. 12*, Turks & Caicos, MPM 21934, 68.8, 10.9, 0.158, 7.59, 0.110, 1.92, 0.028, 1.11, 0.016, 6.45, 0.094, 29, 62, 61, 123, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 2, 2, 1, 1, 2, 1.38, 2.20, 0.627, 0.020, 0.032, 1

*N. sp. 12*, Turks & Caicos, MPM 21935, 66.0, 10.3, 0.156, 7.46, 0.113, 1.68, 0.025, 0.93, 0.014, 6.44, 0.098, 30, 61, 59, 120, 14, 18, 32, 3, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.23, 2.67, 0.461, 0.019, 0.040, 1

*N. sp. 12*, Turks & Caicos, MPM 21936, 72.5, 11.1, 0.153, 8.90, 0.123, 2.30, 0.032, 1.14, 0.016, 6.74, 0.093, 28, 61, 68, 129, 13, 15, 28, 2, 2, 2, 4, 4, 5, 2, 2, 2, 1, 1, 1, 1.47, 2.73, 0.538, 0.020, 0.038, 1

*N. sp. 12*, Turks & Caicos, MPM 21937, 67.0, 11.5, 0.172, 8.31, 0.124, 1.75, 0.026, 1.31, 0.020, 6.84, 0.102, 28, 58, 64, 122, 13, 15, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.3, 3.26, 0.399, 0.019, 0.049, 1

*N. sp. 12*, Turks & Caicos, MCZ 182881, 70.6, 10.8, 0.153, 8.08, 0.114, 1.55, 0.022, 0.890, 0.013, 5.78, 0.082, 30, 60, 58, 118, 12, 15, 27, 2, 2, 2, 4, 4, 6, 1, 2, 2, 1, 1, 2, 1.14, 3.42, 0.333, 0.016, 0.048, 1

*N. sp. 12*, Turks & Caicos, AMNH R-80125, 55.2, 9.97, 0.181, 6.69, 0.121, 1.88, 0.034, 1.04, 0.019, 6.17, 0.112, 28, 62, 62, 124, 12, 14, 26, 2, 2, 2, 4, 4, 7, 2, 2, 2, 2, 1, 1, 1.51, 2.16, 0.699, 0.027, 0.039, 1

*N. sp. 12*, Turks & Caicos, AMNH R-80126, 55.3, 9.86, 0.178, 6.98, 0.126, 1.84, 0.033, 1.03, 0.019, 6.69, 0.121, 30, 58, 61, 119, 11, 16, 27, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.38, 2.70, 0.511, 0.025, 0.049, 1

*N. sp. 12*, Turks & Caicos, AMNH R-80127, 69.5, 11.9, 0.171, 8.82, 0.127, 2.33, 0.034, 1.26, 0.018, 6.95, 0.100, 30, 60, 60, 120, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 1.5, 2.91, 0.515, 0.022, 0.042, 1

*N. sp. 12*, Turks & Caicos, AMNH R-80128, 56.8, 10.5, 0.185, 6.95, 0.122, 1.73, 0.030, 1.19, 0.021, 6.23, 0.110, 30, 60, 62, 122, 10, 14, 24, 2, 2, 2, 4, 3, 5, 2, 2, 2, 2, 1, 2, 1.44, 2.29, 0.629, 0.025, 0.040, 2

*N. sp. 12*, Turks & Caicos, AMNH R-80129, 63.8, 11.0, 0.172, 7.32, 0.115, 2.09, 0.033, 0.970, 0.015, 6.28, 0.098, 30, 59, 61, 120, 12, 14, 26, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 2, 1.21, 3.15, 0.384, 0.019, 0.049, N

*N. sp. 12*, Turks & Caicos, AMNH R-80130, 70.3, 11.2, 0.159, 7.69, 0.109, 1.65, 0.023, 1.18, 0.017, 6.72, 0.096, 30, 60, 63, 123, 12, 17, 29, 2, 2, 2, 4, 4, 5, 1, 2, 2, 2, 1, 2, 1.39, 2.32, 0.599, 0.020, 0.033, 1

*N. sp. 12*, Turks and Caicos, KU 242116, 68.6, 11, 0.160, 8.15, 0.119, 1.73, 0.025, 1.1, 0.016, 6.08, 0.089, 28, 59, 65, 124, 9, 14, 23, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.38, 2.95, 0.468, 0.020, 0.043, 1

*N. sp. 12*, Turks and Caicos, KU 242117, 67.8, 10.5, 0.155, 7.66, 0.113, 1.58, 0.023, 0.990, 0.015, 5.83, 0.086, 28, 59, 58, 117, 10, 13, 23, 2, 2, 2, 4, 3, 5, 2, 1, 2, 1, 1, 2, 1.47, 2.46, 0.598, 0.022, 0.036, 1

*N. sp. 12*, Turks and Caicos, KU 242118, 70.7, 11.5, 0.163, 8.77, 0.124, 1.86, 0.026, 0.830, 0.012, 6.05, 0.086, 28, 59, 63, 122, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.59, 3.24, 0.491, 0.022, 0.046, 1

*N. sp. I2*, Turks and Caicos, KU 242119, 59.0, 10.0, 0.169, 7.00, 0.119, 1.37, 0.023, 1.11, 0.019, 6.14, 0.104, 28, 60, 62, 122, 10, 15, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1, 0.980, 2.65, 0.370, 0.017, 0.045, 1

*N. sp. I2*, Turks and Caicos, KU 242120, 56.4, 9.71, 0.172, 7.19, 0.127, 1.38, 0.024, 1.11, 0.020, 6.54, 0.116, 28, 60, 62, 122, 10, 16, 26, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.43, 2.07, 0.691, 0.025, 0.037, 1

*N. sp. I2*, Turks and Caicos, KU 242121, 64.5, 10.2, 0.158, 7.17, 0.111, 1.39, 0.022, 1.11, 0.017, 6.21, 0.096, 28, 59, 62, 121, 12, 16, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.24, 2.85, 0.435, 0.019, 0.044, 1

*N. sp. I2*, Turks and Caicos, KU 242122, 69.1, 11.6, 0.168, 8.16, 0.118, 1.67, 0.024, 1.2, 0.017, 6.48, 0.094, 30, 61, 63, 124, 11, 13, 24, 2, 2, 2, 4, 4, 5, 1, 2, 2, 1, 1, 2, 1.53, 2.71, 0.565, 0.022, 0.039, 1

*N. sp. I2*, Turks and Caicos, KU 242123, 67.0, 10.3, 0.154, 7.56, 0.113, 1.50, 0.022, 0.990, 0.015, 6.24, 0.093, 28, 62, 60, 122, 11, 14, 25, 2, 2, 2, 4, 4, 4, 2, 2, 2, 1, 1, 2, 1.37, 2.78, 0.493, 0.020, 0.041, 1

*N. sp. I2*, Turks and Caicos, KU 242124, 74.7, 11.4, 0.153, 8.41, 0.113, 1.60, 0.021, 0.840, 0.011, 6.68, 0.089, 30, 62, 64, 126, 12, 17, 29, 2, 2, 2, 4, 3, 5, 2, 1, 2, 1, 1, 2, 1.46, 2.53, 0.577, 0.020, 0.034, 1

*N. sp. I2*, Turks and Caicos, KU 242125, 65.4, 10.3, 0.157, 8.04, 0.123, 1.56, 0.024, 0.730, 0.011, 5.88, 0.090, 28, 60, 62, 122, 10, 14, 24, 2, 2, 2, 4, 3, 5, 2, 1, 2, 2, 1, 2, 1.33, 2.93, 0.454, 0.020, 0.045, 1

*N. sp. I2*, Turks and Caicos, KU 242126, 65.0, 9.86, 0.152, 7.33, 0.113, 1.50, 0.023, 0.960, 0.015, 6.11, 0.094, 28, 62, 63, 125, 10, 14, 24, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.45, 2.43, 0.597, 0.022, 0.037, 1

*N. sp. I2*, Turks and Caicos, KU 242127, 56.4, 9.70, 0.172, 7.37, 0.131, 1.23, 0.022, 0.880, 0.016, 6.11, 0.108, 28, 63, 68, 131, 11, 14, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.66, 2.31, 0.719, 0.029, 0.041, 1

*N. sp. I2*, Turks and Caicos, KU 242128, 68.5, 10.3, 0.150, 7.78, 0.114, 1.58, 0.023, 1.09, 0.016, 6.16, 0.090, 30, 64, 63, 127, 12, 16, 28, 2, 2, 2, 3, 3, 5, 1, 1, 2, 1, 1, 2, 1.51, 2.51, 0.602, 0.022, 0.037, 1

*N. sp. I2*, Turks and Caicos, KU 242129, 57.2, 9.35, 0.163, 7.15, 0.125, 1.23, 0.022, 0.970, 0.017, 6.26, 0.109, 27, 62, 62, 124, 10, 15, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.1, 2.66, 0.414, 0.019, 0.047, 1

*N. sp. I2*, Turks and Caicos, MCZ 140598, 65.1, 10.7, 0.164, 8.34, 0.128, 1.92, 0.029, 0.74, 0.011, N, N, 30, 62, 64, 126, 11, 14, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 1.64, 2.19, 0.749, 0.025, 0.034, 2

*N. sp. I2*, Turks & Caicos, MCZ R-42061, 73.1, 11.7, 0.160, 10.4, 0.142, 1.91, 0.026, N, N, 7.08, 0.097, 32, 65, N, N, 13, 19, 32, 2, N, N, N, 4, 5, N, 2, N, N, N, N, 1.60, 2.80, 0.571, 0.022, 0.038, 1

*N. sp. I2*, Turks & Caicos, MCZ R-42062, 72.4, 12.1, 0.167, 9.04, 0.125, 2.15, 0.030, 1.26, 0.017, 7.92, 0.109, 32, 62, 72, 134, 12, 18, 30, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 1, 1.76, 2.37, 0.743, 0.024, 0.033, 2

*N. sp. I2*, Turks and Caicos, MCZ 183341, 68.8, 10.7, 0.156, 8.23, 0.120, 1.84, 0.027, 1.09, 0.016, 5.75, 0.084, 30, 61, 60, 121, 12, 15, 27, 2, 2, 2, 4, 3, 5, 2, 2, 2, 2, 1, 2, 1.79, 2.52, 0.710, 0.026, 0.037, 1









*N. sp. 13*, Culebra, UMMZ 73822, 92.6, 15.5, 0.167, 10.6, 0.114, 2.59, 0.028, 1.67, 0.018, 9.35, 0.101, 34, 63, 63, 126, 14, 16, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.59, 1.76, 1.47, 0.028, 0.019, 1  
*N. sp. 13*, Culebra, UMMZ 239566, 97.6, 16.2, 0.166, 11.5, 0.118, 2.56, 0.026, 2.03, 0.021, 8.44, 0.086, 32, 63, 64, 127, 15, 18, 33, 2, 2, 2, 4, 5, 6, 2, 1, 2, 1, 1, 2, 2.67, 1.95, 1.37, 0.027, 0.020, 1  
*N. sp. 13*, Culebra, UMMZ 239567, 79.8, 13.7, 0.172, 9.35, 0.117, 2.02, 0.025, 1.6, 0.020, 7.3, 0.091, 32, 59, 62, 121, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.34, 1.24, 1.89, 0.029, 0.016, 2  
*N. sp. 13*, Culebra, UMMZ 239568, 72.4, 13.7, 0.189, 9.13, 0.126, 2.03, 0.028, 1.64, 0.023, 7.94, 0.110, 32, 62, 64, 126, 14, 16, 30, 2, 2, 2, 3, 3, 6, 2, 2, 2, 1, 1, 2, 2.22, 1.72, 1.29, 0.031, 0.024, 1  
*N. sp. 13*, Culebra, UMMZ 239569, 77.7, 14.4, 0.185, 10.6, 0.136, 2.57, 0.033, 1.83, 0.024, 7.22, 0.093, 34, 59, 67, 126, 14, 16, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.3, 1.41, 1.631, 0.030, 0.018, 1  
*N. sp. 13*, Culebra, UMMZ 239570, 85.8, 14.9, 0.174, 10.8, 0.126, 2.78, 0.032, 1.7, 0.020, 8.45, 0.098, 30, 62, 62, 124, 15, 17, 32, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.35, 1.48, 1.59, 0.027, 0.017, 1  
*N. sp. 13*, Culebra, UMMZ 239571, 79, 14, 0.177, 9.73, 0.123, 2.49, 0.032, 1.31, 0.017, 7.43, 0.094, 32, 60, 61, 121, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, N, 2.15, 1.27, 1.69, 0.027, 0.016, 1  
*N. sp. 13*, Culebra, UMMZ 239572, 75.7, 13.9, 0.184, 10.5, 0.139, 2.27, 0.030, 1.54, 0.020, 7.45, 0.098, 32, 60, 67, 127, 14, 17, 31, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.32, 1.39, 1.67, 0.031, 0.018, 1  
*N. sp. 13*, Culebra, UMMZ 239573, 84.0, 14.7, 0.175, 11.0, 0.131, 2.45, 0.029, 1.83, 0.022, 7.69, 0.092, 30, 62, 66, 128, 15, 17, 32, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 2.52, 1.34, 1.88, 0.030, 0.016, 1  
*N. sp. 13*, Culebra, UMMZ 239574, 80.8, 14.6, 0.181, 10.4, 0.129, 2.50, 0.031, 1.47, 0.018, 7.88, 0.098, 34, 57, 66, 123, 15, 19, 34, 2, 2, 2, 4, 5, 6, 2, 1, 2, 2, 1, 2, 2.63, 1.47, 1.79, 0.033, 0.018, 2  
*N. sp. 13*, Culebra, UMMZ 239575, 83.3, 14.3, 0.172, 10.2, 0.122, 2.10, 0.025, 1.13, 0.014, 7.65, 0.092, 34, 62, 64, 126, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.45, 1.3, 1.89, 0.029, 0.016, 2  
*N. sp. 13*, Culebra, UMMZ 239576, 72.0, 13.5, 0.188, 9.29, 0.129, 1.93, 0.027, 1.47, 0.020, 8.07, 0.112, 32, 61, 64, 125, 15, 18, 33, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.35, 1.21, 1.94, 0.033, 0.017, 1  
*N. sp. 13*, Culebra, UMMZ 239577, 75.0, 14.1, 0.188, 9.96, 0.133, 2.28, 0.030, 1.35, 0.018, 8.32, 0.111, 34, 65, 69, 134, 15, 18, 33, 2, 2, 2, 4, 6, 6, 2, 2, 2, 2, 1, 1, 2.49, 1.38, 1.80, 0.033, 0.018, 2  
*N. sp. 13*, Culebra, UMMZ 239578, 75.6, 13.3, 0.176, 9.86, 0.130, 2.29, 0.030, 1.32, 0.017, 7.75, 0.103, 36, 62, 68, 130, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 3, 1.80, 1.74, 1.03, 0.024, 0.023, 1  
*N. sp. 13*, Culebra, UMMZ 239579, 78.4, 13.9, 0.177, 9.86, 0.126, 2.31, 0.031, 1.71, 0.022, 7.97, 0.102, 32, 60, 62, 122, 14, 17, 31, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 2.27, 1.9, 1.20, 0.029, 0.024, 2  
*N. sp. 13*, Culebra, UMMZ 239580, 76.3, 13.8, 0.181, 9.65, 0.126, 1.75, 0.030, 1.67, 0.022, 8.17, 0.107, 32, 59, 62, 121, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.06, 1.52, 1.36, 0.027, 0.020, 2  
*N. sp. 13*, Culebra, UMMZ 73823, 85.6, 14.8, 0.173, 11, 0.129, 2.6, 0.030, 1.67, 0.020, 8.3, 0.097, 33, 59, 63, 122, 14, 18, 32, 2, 2, 2, 3, 4, 6, 2, 1, 2, 1, 1, 2, 2.85, 1.69, 1.69, 0.033, 0.020, 1  
*N. sp. 13*, Culebra, UMMZ 239582, 62.3, 12.8, 0.205, 9.07, 0.146, 2.1, 0.034, 1.36, 0.022, 7.11, 0.114, N N, N, N, N, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.79, 1.81, 0.989, 0.029, 0.029, 2  
*N. sp. 13*, Culebra, UMMZ 239583, 85.7, 15, 0.175, 9.9, 0.116, 2.62, 0.031, 1.67, 0.019, 9, 0.105, 32, 62, N, N, 16, 15, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.3, 1.84, 1.25, 0.027, 0.021, 1  
*N. sp. 13*, Culebra, UMMZ 239585, 82.9, 15.3, 0.185, 11.1, 0.134, 2.66, 0.032, 1.59, 0.019, 7.62, 0.092, 32, 59, 64, 123, 14, 16, 30, 2, 2, 2, 3, 4, 6, 2, 1, 2, 1, 1, 2, 2.18, 2.03, 1.07, 0.026, 0.024, 2  
*N. sp. 13*, Culebra, UMMZ 239587, 84.6, 13.5, 0.160, 10.1, 0.119, 1.93, 0.023, 1.26, 0.015, 7.69, 0.091, 32, 61, 67, 128, 13, 19, 32, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.97, 1.62, 1.22, 0.023, 0.019, 1  
*N. sp. 13*, Culebra, UMMZ 239588, 77.5, 13.9, 0.179, 10.0, 0.129, 2.19, 0.028, 1.60, 0.021, 8.39, 0.108, 30, 63, 62, 125, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 2.01, 1.55, 1.30, 0.026, 0.020, 1  
*N. sp. 13*, Culebra, UMMZ 239589, 59.7, 12.9, 0.216, 9.64, 0.161, 2.09, 0.035, 1.24, 0.021, 7.73, 0.129, 30, 57, 65, 122, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 2, 1, 1.84, 1.93, 0.953, 0.031, 0.032, 1

*N. sp. 13*, Culebra, UMMZ 73826, 35.6, 8.51, 0.239, 5.31, 0.149, 1.32, 0.037, 1.01, 0.028, 4.46, 0.125, 32, 61, 65, 126, 14, 17, 31, 2, 2, 2, 3, 4, 7, 2, 1, 2, 2, 1, 2, 1.54, 1.12, 1.38, 0.043, 0.031, 2  
*N. sp. 13*, Culebra, UMMZ 239590, 37.8, 8.55, 0.226, 5.57, 0.147, 1.48, 0.039, 0.92, 0.024, 4.22, 0.112, 33, 60, 64, 124, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.6, 1.04, 1.54, 0.042, 0.028, 2  
*N. sp. 13*, Culebra, UMMZ 239591, 36, 8.48, 0.236, 5.26, 0.146, 1.34, 0.037, 0.97, 0.027, 4.14, 0.115, 32, 61, 64, 125, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 3, 1.67, 1.14, 1.47, 0.046, 0.032, 2  
*N. sp. 13*, Culebra, AMNH R-14005, 88.4, 14.6, 0.165, 10.5, 0.119, 2.66, 0.030, 1.39, 0.016, 8.6, 0.097, 30, 64, 67, 131, 15, 17, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, N, 2.23, 1.57, 1.42, 0.025, 0.018, 2  
*N. sp. 13*, Culebra, AMNH R-14006, 60.3, 11.7, 0.194, 8.05, 0.133, 2.07, 0.034, 1.25, 0.021, 7.12, 0.118, 32, 61, 63, 124, 14, 16, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.07, 1.71, 1.21, 0.034, 0.028, 2  
*N. sp. 13*, Culebrita, UMMZ 80786, 79.4, 13.4, 0.169, 9.98, 0.126, 2.14, 0.027, 1.13, 0.014, 8.29, 0.104, 34, 64, 69, 133, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.96, 1.93, 1.02, 0.025, 0.024, 2  
*N. sp. 13*, Culebra, UMMZ 239584, 90, 14.5, 0.161, 11.2, 0.124, 2.45, 0.027, N, N, 8.25, 0.092, 34, 65, 67, 132, 14, 16, 30, 2, 2, N, N, 4, 6, 2, 1, 2, 2, N, 2, 2.23, 1.93, 1.16, 0.025, 0.021, 1  
*N. sp. 13*, Culebra, UMMZ 239586, 82.8, 15.8, 0.191, 11.5, 0.139, 2.56, 0.031, N, N, 8.58, 0.104, 30, N, N, N, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, N, 2, 2.27, 1.92, 1.18, 0.027, 0.023, 1  
  
*N. sp. 14*, Dominican Republic, MCZ 3617A, 85.2, 13.5, 0.158, 10.5, 0.123, 2.29, 0.027, 1.01, 0.012, 7.68, 0.090, 32, 60, 71, 131, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 1.81, 2.83, 0.640, 0.021, 0.033, 2  
*N. sp. 14*, Dominican Republic, MCZ 3617B, N, N, N, N, N, N, N, N, N, N, N, N, N, N, N, N, 13, N, N, N, N, N, N, N, 6, N, N, N, N, N, N, N, N, N, N, N  
*N. sp. 14*, Dominican Republic, MCZ 3617C, N, N, N, N, N, N, N, N, N, N, N, N, 32, 59, 72, 131, 12, N, N, 2, N, N, N, N, 6, N, N, N, N, N, N, N, N, N, N, N  
*N. sp. 14*, Dominican Republic, MCZ 3617D, N, N, N, N, N, N, N, N, N, N, N, N, 31, 60, 70, 130, 13, 17, 30, 2, 2, 1, 4, N, 6, N, 1, 1, 2, 1, N, N, N, N, N, N, N  
*N. sp. 14*, Dominican Republic, MCZ 3617E, N, N, N, N, N, N, N, N, N, N, N, N, 30, 60, 69, 129, 13, 17, 30, N, N, N, N, N, 6, N, N, N, N, N, N, N, N, N, N, N, N  
  
*N. sp. 15*, St. Martin, MCZ R-86418, 83.1, 12.8, 0.154, 10.2, 0.123, 1.79, 0.022, 1.60, 0.019, 6.83, 0.082, 34, 65, 68, 133, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 2, 1.70, 2.29, 0.742, 0.020, 0.028, 2  
*N. sp. 15*, St. Martin, MCZ R-86419, 59.2, 10.1, 0.171, 7.17, 0.121, 1.49, 0.025, N, N, 6.21, 0.105, 33, N, 68, N, 13, 17, 30, 2, 2, 2, 3, 4, 6, 2, 2, 2, 1, 1, N, 1.10, 1.99, 0.553, 0.019, 0.034, 2  
*N. sp. 15*, St. Martin, ANSP 9503, 41.5, 9.64, 0.232, 5.98, 0.144, 1.32, 0.032, 0.74, 0.018, 5.11, 0.123, 32, 56, 71, 127, 17, 19, 36, 2, 2, 2, 3, 4, 6, 1, 2, 2, 1, 1, N, 0.580, 3.38, 0.172, 0.014, 0.081, 1  
*N. sp. 15*, St. Martin, ANSP 9504, 41.1, 9.40, 0.229, 5.99, 0.146, 1.41, 0.034, 0.750, 0.018, 5.36, 0.130, 34, 60, 71, 131, 16, 19, 35, 2, 2, 2, 3, 4, 6, 1, 2, 2, 1, 1, N, 0.550, 2.93, 0.188, 0.013, 0.071, 1  
*N. sp. 15*, St. Martin, ANSP 9505, 40.3, 9.66, 0.240, 6.40, 0.159, 1.43, 0.035, 0.670, 0.017, 5.51, 0.137, 34, 58, 70, 128, 17, 19, 36, 2, 2, 2, 3, 4, 5, 2, 2, 2, 2, 1, 3, 0.760, 2.46, 0.309, 0.019, 0.061, 2  
*N. sp. 15*, St. Martin, ANSP 9506, 39.9, 9.20, 0.231, 5.92, 0.148, 1.28, 0.032, 0.770, 0.019, 5.33, 0.134, N, 56, 68, 124, 15, 18, 33, 2, 2, 2, 3, 4, 5, 1, 1, 2, 1, 1, 1, 0.76, 3.21, 0.237, 0.019, 0.080, 1

*N. sp. 15*, St. Martin, ANSP 9507, 39.2, 9.17, 0.234, 5.91, 0.151, 1.40, 0.036, 0.580, 0.015, 5.51, 0.141, 32, 60, 69, 129, 15, 18, 33, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, N, 0.82, 3.05, 0.269, 0.021, 0.078, 1  
*N. sp. 15*, St. Martin, ANSP 9514, 65.4, 11.0, 0.168, 8.06, 0.123, 1.82, 0.028, 1.00, 0.015, 6.21, 0.095, 33, 62, 68, 130, 15, 17, 32, 2, 2, 2, 3, 4, 5, 2, 2, 2, 1, 3, 1.31, 2.62, 0.500, 0.020, 0.040, 2  
*N. sp. 15*, St. Martin, ANSP 9515, 72.7, 10.9, 0.150, 7.25, 0.100, 1.66, 0.023, 0.92, 0.013, 6.24, 0.086, 32, 62, 68, 130, 15, 16, 31, 2, 2, 2, 4, 4, 5, 2, 2, 1, 2, 1, 2, 1.52, 2.67, 0.569, 0.021, 0.037, 2  
  
*N. sp. 16*, Mona, UMMZ 73817, 71.4, 12.5, 0.175, 8.26, 0.116, 2.17, 0.030, 1.14, 0.016, 6.28, 0.088, 32, 64, 62, 126, 14, 16, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.92, 1.67, 1.15, 0.027, 0.023, 2  
*N. sp. 16*, Mona, UMMZ 239529, 80.7, 13.8, 0.171, 9.75, 0.121, 2.30, 0.029, 1.45, 0.018, 6.83, 0.085, 32, 61, 66, 127, 14, 17, 31, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.35, 1.49, 1.58, 0.029, 0.018, 2  
*N. sp. 16*, Mona, UMMZ 239530, 55.6, 11.1, 0.200, 6.90, 0.124, 1.73, 0.031, 1.07, 0.019, 5.18, 0.093, 32, 60, 69, 129, 15, 16, 31, 2, 2, 2, 4, 3, 6, 2, 1, 2, 2, 1, 3, 1.92, 1.11, 1.73, 0.035, 0.020, 2  
*N. sp. 16*, Mona, UMMZ 73818, 82.5, 15.6, 0.189, 11.3, 0.137, 2.95, 0.036, 1.77, 0.021, 8.03, 0.097, 32, 61, 69, 130, 13, 18, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.77, 1.47, 1.88, 0.034, 0.018, 2  
*N. sp. 16*, Mona, UMMZ 239531, 76.9, 13.6, 0.177, 9.53, 0.124, 2.29, 0.030, 1.47, 0.019, 7.03, 0.091, 32, 59, 65, 124, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 2, 2.27, 1.44, 1.58, 0.030, 0.019, 2  
*N. sp. 16*, Mona, UMMZ 239532, 82.3, 14.3, 0.174, 10.5, 0.128, 2.72, 0.033, 1.36, 0.017, 7.25, 0.088, 32, 62, 62, 124, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 2, 2.28, 1.59, 1.43, 0.028, 0.019, 2  
*N. sp. 16*, Mona, UMMZ 239533, 81.9, 14.7, 0.179, 9.89, 0.121, 2.52, 0.031, 1.63, 0.020, 7.32, 0.089, 32, 60, 69, 129, N, 16, N, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.16, 1.56, 1.39, 0.026, 0.019, 2  
*N. sp. 16*, Mona, UMMZ 239534, 73.7, 14.2, 0.193, 9.85, 0.134, 2.43, 0.033, 1.37, 0.019, 6.49, 0.088, 32, 60, 65, 125, 14, 15, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.45, 1.51, 1.62, 0.033, 0.020, 2  
*N. sp. 16*, Mona, UMMZ 239535, 73.8, 14.2, 0.192, 9.04, 0.122, 2.40, 0.033, 1.56, 0.021, 7.44, 0.101, 30, 61, 62, 123, 16, 17, 33, 2, 2, 2, 4, 5, 6, 2, 2, 2, 1, 1, 2, 2.08, 1.66, 1.25, 0.028, 0.022, 2  
*N. sp. 16*, Mona, UMMZ 239536, 75.9, 13.5, 0.178, 9.74, 0.128, 2.47, 0.033, 1.68, 0.022, 7.14, 0.094, 32, 60, 69, 129, 14, 18, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.29, 1.07, 2.14, 0.030, 0.014, 2  
*N. sp. 16*, Mona, UMMZ 239537, 85.9, 15.3, 0.178, 10.1, 0.118, 2.69, 0.031, 1.46, 0.017, 6.95, 0.081, 32, 58, 67, 125, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 2, 2.44, 1.53, 1.60, 0.028, 0.018, 1  
*N. sp. 16*, Mona, UMMZ 239538, 76.4, 13.6, 0.178, 9.7, 0.127, 2.35, 0.031, 1.12, 0.015, 6.83, 0.089, 30, 58, 61, 119, 14, 15, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.42, 1.21, 2.00, 0.032, 0.016, 2  
*N. sp. 16*, Mona, UMMZ 239539, 77.1, 14.3, 0.185, 10.2, 0.132, 2.4, 0.031, 1.25, 0.016, 6.64, 0.086, 32, 58, 63, 121, 14, 15, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.93, 1.96, 0.985, 0.025, 0.025, 2  
*N. sp. 16*, Mona, UMMZ 73824, 87, 14.2, 0.163, 10.4, 0.120, 2.6, 0.030, 1.77, 0.020, 7.51, 0.086, 32, 61, 70, 131, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 2.06, 1.87, 1.10, 0.024, 0.021, 2  
*N. sp. 16*, Mona, UMMZ 239540, 83.6, 14.2, 0.170, 9.88, 0.118, 2.45, 0.029, 1.36, 0.016, 7.15, 0.086, 32, 64, 69, 133, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 2, 2.21, 1.87, 1.18, 0.026, 0.022, 2  
*N. sp. 16*, Mona, UMMZ 239541, 74, 13.7, 0.185, 9.94, 0.134, 2.4, 0.032, 1.44, 0.019, 6.93, 0.094, 30, N, 67, N, 13, 18, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, N, 1, 2, 2.06, 1.6, 1.29, 0.028, 0.022, 2  
*N. sp. 16*, Mona, UMMZ 239542, 78.3, 14.4, 0.184, 9.68, 0.124, 2.2, 0.028, 1.77, 0.023, 7.03, 0.090, 32, 61, 65, 126, 13, 15, 28, 3, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 3, 2.09, 1.8, 1.16, 0.027, 0.023, 2  
*N. sp. 16*, Mona, UMMZ 239543, 82.3, 14.5, 0.176, 10.2, 0.124, 2.45, 0.030, 1.33, 0.016, 7.37, 0.090, 32, 61, 64, 125, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.16, 1.45, 1.49, 0.026, 0.018, 2  
*N. sp. 16*, Mona, UMMZ 239544, 80.4, 14.1, 0.175, 8.92, 0.111, 2.43, 0.030, 1.3, 0.016, 6.87, 0.085, 32, 62, 70, 132, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 2, 2.29, 1.5, 1.53, 0.028, 0.019, 2

*N. sp. 16*, Mona, UMMZ 239545, 76.2, 14.2, 0.186, 9.1, 0.119, 2.33, 0.031, 1.05, 0.014, 6.96, 0.091, 32, 59, 62, 121, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 3, 2.02, 1.35, 1.50, 0.027, 0.018, 2  
*N. sp. 16*, Mona, UMMZ 239546, 43.8, 9.44, 0.216, 5.91, 0.135, 1.28, 0.029, 1.08, 0.025, 4.81, 0.110, 32, 60, 69, 129, 14, 19, 33, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 3, 1.63, 1.22, 1.34, 0.037, 0.028, 2  
*N. sp. 16*, Mona, UMMZ 73825, 79.4, 14.3, 0.180, 10.1, 0.127, 2.33, 0.029, 1.59, 0.020, 7.68, 0.097, 32, 61, 72, 133, 15, 16, 31, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 3, 2.32, 1.73, 1.34, 0.029, 0.022, 2  
*N. sp. 16*, Mona, UMMZ 239547, 74.3, 13.8, 0.186, 10.3, 0.139, 2.42, 0.033, 1.61, 0.022, 6.65, 0.090, 32, 65, 70, 135, 13, 18, 31, 2, 2, N, 4, 4, 6, 2, 2, 2, 1, 1, 3, 1.85, 1.61, 1.15, 0.025, 0.022, 2  
*N. sp. 16*, Mona, RT 11933, 78.7, 13.6, 0.173, 9.98, 0.127, 1.77, 0.022, 1.25, 0.016, 7.38, 0.094, 32, 63, 66, 129, 13, 15, 28, 3, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 3, 2.14, 1.63, 1.31, 0.027, 0.021, 2  
*N. sp. 16*, Mona, CAS 10581, 80.8, 14.7, 0.182, 10.7, 0.132, 2.27, 0.028, 1.31, 0.016, 8.15, 0.101, 32, 58, 66, 124, 13, 18, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 3, 2.51, 1.56, 1.61, 0.031, 0.019, 2  
*N. sp. 16*, Mona, CAS 10582, 55.9, 10.7, 0.191, 6.93, 0.124, 1.5, 0.027, 1.19, 0.021, 5.81, 0.104, 34, 63, 69, 132, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.75, 1.17, 1.50, 0.031, 0.021, 2  
*N. sp. 16*, Mona, CAS 14628, 53.8, 10.1, 0.188, 6.97, 0.130, 1.36, 0.025, 1.08, 0.020, 5.36, 0.100, 32, 61, 64, 125, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 2, 2, 1, 1, 2, 1.65, 1.13, 1.46, 0.031, 0.021, 2  
*N. sp. 16*, Mona, MCZ 36625, 79, 14.9, 0.189, 10.6, 0.134, 2.38, 0.030, 1.34, 0.017, 7.74, 0.098, 33, 59, N, N, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.25, 1.87, 1.20, 0.028, 0.024, 2  
*N. sp. 16*, Mona, MCZ 36626, 78.1, 12.9, 0.165, 10.1, 0.129, N, N, 0.96, 0.012, 7.32, 0.094, 28, 60, 60, 120, 13, 16, 29, 2, 2, N, N, N, 6, 2, 1, 2, 2, N, N, 2.09, 1.53, 1.37, 0.027, 0.020, 1  
*N. sp. 16*, Mona, MCZ 36627, 85, 13.7, 0.161, 10.7, 0.126, 2.29, 0.027, 1.21, 0.014, 7.2, 0.085, 32, 61, 66, 127, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.45, 1.51, 1.62, 0.029, 0.018, 2  
*N. sp. 16*, Mona, MCZ 36628, 80.9, 13.6, 0.168, 9.87, 0.122, 2.02, 0.025, 1.23, 0.015, 7.27, 0.090, 34, 61, 66, 127, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 2, 1.75, 1.14, 0.025, 0.022, 1  
*N. sp. 16*, Mona, CM 23774, 75.3, 13.7, 0.182, 10.2, 0.135, 2.23, 0.030, 1.19, 0.016, 7.06, 0.094, 30, 58, 62, 120, 13, 18, 31, 3, 2, 2, 4, 5, 6, 2, 1, 2, 2, 1, 2, 2.11, 1.31, 1.61, 0.028, 0.017, 2  
*N. sp. 16*, Mona, CM 23775, 76, 13.3, 0.175, 9.69, 0.128, 2.1, 0.028, 1.11, 0.015, 7.45, 0.098, 32, 61, 70, 131, 13, 16, 29, 2, 2, 2, 3, 4, 6, 2, 2, 2, 1, 1, 3, 1.94, 1.15, 1.69, 0.026, 0.015, 2  
*N. sp. 16*, Mona, CM 23776, 55, 10.5, 0.191, 7.35, 0.134, 1.49, 0.027, 1.08, 0.020, 5.53, 0.101, 34, 65, 69, 134, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 1.86, 1.09, 1.71, 0.034, 0.020, 2  
*N. sp. 16*, Mona, UMMZ 124819, N, 11.8, N, 8.01, N, 1.65, N, 0.95, N, 6.26, N, N, 56, N, N, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 2.12, 1.17, 1.81, N, N, 2

*N. sp. 17*, Monito, SBH 192877, 89.3, 15.3, 0.171, 11.3, 0.127, 2.45, 0.027, 1.21, 0.014, 7.97, 0.089, 34, 63, 69, 132, 13, 17, 30, 2, 2, 2, 4, 5, 5, 2, 2, 2, 1, 1, 2, 2.19, 2.51, 0.874, 0.025, 0.028, 2  
*N. sp. 17*, Isla Monito, RT 11377, 90.3, 16.1, 0.178, 12.5, 0.138, 2.85, 0.032, 1.28, 0.014, 7.72, 0.085, 32, 63, 64, 127, 12, 17, 29, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1.5, 2.55, 2.51, 1.02, 0.028, 0.028, 2  
*N. sp. 17*, Isla Monito, RT 11378, 85.8, 14.4, 0.168, 11.0, 0.128, 2.20, 0.026, 1.23, 0.014, 7.60, 0.089, 32, 64, 67, 131, 13, 16, 29, 2, 2, 2, 4, 3, 5, 2, 2, 2, 2, 1, 2, 2.3, 1.81, 1.27, 0.027, 0.021, 2  
*N. sp. 17*, Isla Monito, RT 11379, 43.3, 9.09, 0.210, 6.38, 0.147, 1.29, 0.030, 1.29, 0.030, 4.62, 0.107, 34, 62, 65, 127, 15, 17, 32, 2, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 2, 1.48, 1.28, 1.16, 0.034, 0.030, 2  
*N. sp. 17*, Isla Monito, RT 11391, 82.6, 14.5, 0.176, 10.7, 0.130, 2.37, 0.029, 1.20, 0.015, 8.84, 0.107, 32, 62, 64, 126, 13, 17, 30, 2, 2, 2, 3, 3, 5, 1, 2, 2, 1, 1, 2, 2.09, 1.88, 1.11, 0.025, 0.023, 1

*N. sp. 17*, Isla Monito, RT 11427, 94.5, 15.3, 0.162, 10.9, 0.115, 2.29, 0.024, 1.50, 0.016, 7.88, 0.083, 34, 63, 64, 127, 13, 16, 29, 2, 2, 2, 4, 4, 5, 1, 2, 2, 1, 1, 1.5, 2.12, 2.28, 0.932, 0.022, 0.024, 2

*N. sp. 17*, Isla Monito, RT 11430, 88.5, 14.8, 0.167, 11.1, 0.125, 2.36, 0.027, 1.31, 0.015, 7.80, 0.088, 32, 63, 66, 129, 13, 17, 30, 2, 2, 2, 4, 5, 5, 2, 2, 2, 1, 1, 2, 2.36, 2.07, 1.14, 0.027, 0.023, 2

*N. sp. 18*, Anguilla, MPM 23178, 52.5, 9.66, 0.184, 6.60, 0.126, 1.32, 0.025, 1.21, 0.023, 5.39, 0.103, 34, 65, 62, 127, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 1.08, 1.92, 0.563, 0.021, 0.037, 2

*N. sp. 18*, Anguilla, BWMC 6755, 71.3, 11.9, 0.167, 8.60, 0.121, 1.91, 0.027, 1.47, 0.021, 7.85, 0.110, 32, 63, 65, 128, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.25, 2.42, 0.517, 0.018, 0.034, 2

*N. sp. 18*, Anguilla, BWMC 6754, 63.9, 11.2, 0.175, 7.84, 0.123, 1.71, 0.027, 1.69, 0.026, 7.38, 0.115, 32, 61, 66, 127, 12, 17, 29, 2, 2, 2, 3, 4, 6, 2, 2, 2, 1, 1, 2, 1.38, 2.5, 0.552, 0.022, 0.039, 2

*N. sp. 18*, Anguilla, MCZ R-74343, 69.5, 12.1, 0.174, 10.0, 0.144, 2.06, 0.030, 1.55, 0.022, 7.31, 0.105, 32, 59, 62, 121, 12, 14, 26, 2, 2, 2, 4, 4, 6, 2, 2, 1, 2, 1, 3, 1.49, 2.73, 0.546, 0.021, 0.039, 2

*N. sp. 18*, Anguilla, CM 115518, 68.3, 11.1, 0.163, 8.02, 0.117, 2.06, 0.030, 1.33, 0.019, 6.14, 0.090, 34, 63, 62, 125, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 2, 1, 2, 1, 1, 1.2, 1.98, 0.606, 0.018, 0.029, 1

*N. sp. 18*, Anguilla, RT 8335, 69.5, 11.1, 0.160, 8.28, 0.119, 1.77, 0.025, 1.16, 0.017, 6.17, 0.089, 33, 65, 64, 129, 12, 15, 27, 2, 2, 2, 4, 3, 6, 2, 2, 2, 2, 1, 2, 1.38, 2.33, 0.592, 0.020, 0.034, 2

*N. sp. 18*, Anguilla, RT 8336, 71.7, 12.2, 0.170, 8.80, 0.123, 2.08, 0.029, 1.18, 0.016, 6.06, 0.085, 32, 62, 65, 127, 13, 15, 28, 2, 2, 2, 3, 4, 5, 2, 1, 1, 1, 1, 2.5, 1.33, 3.42, 0.389, 0.019, 0.048, 2

*N. sp. 18*, Anguilla, RT 8337, 69.8, 10.9, 0.156, 8.33, 0.119, 1.59, 0.023, 1.24, 0.018, 6.47, 0.093, 34, 64, 64, 128, 14, 18, 32, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2.5, 0.980, 2.67, 0.367, 0.014, 0.038, 2

*N. sp. 18*, Anguilla, CM 115480, 67, 12, 0.179, 9.27, 0.138, 1.69, 0.025, 1.46, 0.022, 7.3, 0.109, 34, 65, 67, 132, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 2, 2, 1, 1, 1, 1.25, 2.37, 0.527, 0.019, 0.035, 2

*N. sp. 18*, Anguilla, CM 115481, 60.2, 10.6, 0.176, 7.53, 0.125, 1.71, 0.028, 1.26, 0.021, 6.31, 0.105, 32, 62, 64, 126, 12, 15, 27, 2, 2, 2, 2, 4, 6, 2, 2, 2, 1, 1, 2, 1.11, 2.79, 0.398, 0.018, 0.046, 2

*N. sp. 18*, St. Barts, MPM 23055, 51.0, 8.91, 0.175, 6.78, 0.133, 1.28, 0.025, 1.22, 0.024, 5.46, 0.107, 34, 64, 66, 130, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 2, 1, 2, 1, 1, 1.38, 1.81, 0.762, 0.027, 0.035, 2

*N. sp. 18*, St. Barts, MNHN 1997.6064, 50.6, 8.81, 0.174, 6.42, 0.127, 1.26, 0.025, 1.16, 0.023, 5.28, 0.104, 32, 64, 66, 130, 12, 14, 26, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.27, 2.03, 0.626, 0.025, 0.040, 2

*N. sp. 18*, St. Barts, MNHN 2003.0844, 57.8, 10.5, 0.182, 8.03, 0.139, 1.41, 0.024, 1.48, 0.026, 6.09, 0.105, 34, 62, 63, 125, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.18, 2.45, 0.482, 0.020, 0.042, 2

*N. sp. 18*, St. Barts, KU 242090, 69.0, 11.9, 0.172, 8.69, 0.126, 1.94, 0.028, 1.24, 0.018, 7.19, 0.104, 33, 62, 67, 129, 14, 15, 29, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 0.880, 3.80, 0.232, 0.013, 0.055, 2

*N. sp. 18*, St. Barts, KU 242091, 68.2, 10.9, 0.160, 8.13, 0.119, 1.64, 0.024, 0.93, 0.014, 6.30, 0.092, 34, N, 62, N, 11, 14, 25, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.2, 2.11, 0.569, 0.018, 0.031, 2

*N. sp. 18*, St. Barts, KU 242092, 34.2, 7.28, 0.213, 5.08, 0.149, 1.06, 0.031, 0.86, 0.025, 3.96, 0.116, 34, 63, 66, 129, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 0.740, 1.72, 0.430, 0.022, 0.050, 2



*N. sp. 19*, Turks and Caicos, KU 242171, 77.8, 11.8, 0.152, 9.47, 0.122, 2.62, 0.034, 1.21, 0.016, 6.09, 0.078, 30, 63, 62, 125, 13, 15, 28, N, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 3, 0.69, 3.36, 0.205, 0.009, 0.043, 2

*N. sp. 19*, Turks & Caicos, ANSP 3835, N, 11.4, N, 8.35, N, 1.83, N, 1.15, N, N, N, 30, 59, 63, 122, N, N, N, 2, 2, 2, 4, 4, N, 2, 2, 2, 2, 1, 2, N, N, N, N, N, N

*N. sp. 19*, Turks and Caicos, MCZ 11946, 79.3, 12.6, 0.159, 10.3, 0.130, 2.20, 0.028, 1.06, 0.013, 6.45, 0.081, 30, 60, 60, 120, 12, 17, 29, 2, 2, 2, 4, 5, 6, 2, 2, 2, 2, 1, 2, 1.73, 2.78, 0.622, 0.022, 0.035, 2

*N. sp. 19*, Turks and Caicos, MCZ 11947, 70.8, 11.4, 0.161, 8.50, 0.120, 1.71, 0.024, 0.920, 0.013, 6.91, 0.098, 30, 59, 63, 122, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 1.31, 3.09, 0.424, 0.019, 0.044, 2

*N. sp. 19*, Turks and Caicos, KU 242170, 79.1, 12.3, 0.155, 10.0, 0.126, 2.74, 0.035, 1.12, 0.014, 5.58, 0.071, 30, 63, 63, 126, 15, 15, 30, N, 2, 2, 4, 4, 6, 1, 2, 2, 2, 1, 2, 0.830, 3.15, 0.263, 0.010, 0.040, 2

*N. sp. 19*, Turks and Caicos, KU 242172, 69.6, 11.3, 0.162, 8.80, 0.126, 2.57, 0.037, 1.26, 0.018, 6.04, 0.087, 30, 59, 63, 122, 14, 16, 30, N, 2, 2, 4, 4, 5, 1, 2, 2, 1, 1, 2, 0.610, 3.26, 0.187, 0.009, 0.047, 2

*N. sp. 19*, Turks and Caicos, KU 242173, 69.2, 11.4, 0.165, 8.83, 0.128, 2.45, 0.035, 1.19, 0.017, 5.86, 0.085, 30, 60, 59, 119, 14, 16, 30, N, 2, 2, 4, 4, 5, 2, 2, 2, 2, 1, 2, 0.8, 3.06, 0.261, 0.012, 0.044, 2

*pergravis*, Isla Providencia, ANSP 25794 N, 85.5, 16.2, 0.189, 10.4, 0.122, 2.37, 0.028, 1.57, 0.018, 10.5, 0.123, 30, 63, 73, 136, 16, 20, 36, 2, 2, 2, 4, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, N, 1

*pergravis*, Isla Providencia, ANSP 25795, 87.7, 16.7, 0.190, 10.6, 0.121, 2.69, 0.031, 1.42, 0.016, 10.6, 0.121, 30, 63, 72, 135, 15, 18, 33, 2, 2, 2, 4, 4, 6, 1, 1, 2, 1, 1, 1, N, N, N, N, N, N, 1

*pergravis*, Isla Providencia, ANSP 25791, 90.9, 15.9, 0.175, 9.78, 0.108, 2.41, 0.027, 1.61, 0.018, 10.4, 0.114, 28, 62, 70, 132, 15, 17, 32, 2, 2, 2, 4, 4, 5, 1, 1, 2, 1, 1, 1, N, N, N, N, N, N, 1

*pergravis*, Isla Providencia, ANSP 25792, 82.1, 15.8, 0.192, 10.5, 0.128, 2.25, 0.027, 1.40, 0.017, 10.8, 0.132, 30, 63, 73, 136, 16, 19, 35, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, N, 1

*pergravis*, Isla Providencia, ANSP 25793, 87.4, 15.6, 0.178, 10.8, 0.124, 2.33, 0.027, 1.35, 0.015, 10.4, 0.119, 30, 63, 70, 133, 16, 18, 34, 2, 2, 2, 4, 4, 6, 1, 1, 2, 1, 1, 2, N, N, N, N, N, N, 2

*semitaeniata*, N, ZMB-1238, 60.5, N, N, N, N, N, N, N, N, 6, 0.099, 32, 62, 64, 126, N, N, N, N, 4, 4, 4, 4, 5, N, 1, 2, N, N, N, 1.97, 0.927, 2.13, 0.033, 0.015,

*semitaeniata*, British Virgin Islands, MCZ 182273, 70.4, 11.8, 0.168, 8.69, 0.123, 1.71, 0.024, 0.89, 0.013, 5.67, 0.081, 34, 63, 62, 125, 10, 15, 25, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.71, 1.19, 1.44, 0.024, 0.017, 2

*semitaeniata*, British Virgin Islands, KU 242065, 68.5, 11.3, 0.165, 8.53, 0.125, 1.45, 0.021, 0.880, 0.013, 6.35, 0.093, 32, 59, 64, 123, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 1, 1, 2, 1, 3, 2.13, 0.760, 2.81, 0.031, 0.011, 2

*semitaeniata*, British Virgin Islands, KU 242066, 66.5, 12.0, 0.180, 8.75, 0.132, 1.76, 0.026, 0.990, 0.015, 6.43, 0.097, 33, 62, N, N, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.52, 1.01, 2.50, 0.038, 0.015, 2

*semitaeniata*, British Virgin Islands, KU 242067, 63.4, 12.2, 0.192, 8.60, 0.136, 1.60, 0.025, 0.780, 0.012, 7.08, 0.112, N, N, 66, N, 13, 16, 29, 2, 2, 2, 3, 4, 6, 2, 1, 2, 1, 1, 1, 2.52, 0.85, 2.97, 0.040, 0.013, 2

*semitaeniata*, British Virgin Islands, KU 242068, 65.2, 11.1, 0.170, 7.68, 0.118, 1.37, 0.021, 0.820, 0.013, 5.6, 0.086, 32, 61, 61, 122, 13, 15, 28, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, N, 2, 2.05, 0.92, 2.23, 0.031, 0.014, 2

*semitaeniata*, British Virgin Islands, KU 242069, 64.4, 11.1, 0.172, 8.35, 0.130, 1.51, 0.023, 0.890, 0.014, 5.96, 0.093, 34, 62, 67, 129, 10, 14, 24, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.99, 1.14, 1.75, 0.031, 0.018, 2

*semitaeniata*, British Virgin Islands, KU 242070, 60.2, 10.3, 0.171, 7.68, 0.128, 1.62, 0.027, 1.03, 0.017, 5.98, 0.099, 34, 62, 64, 126, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.77, 0.82, 2.16, 0.029, 0.014, 1

*semitaeniata*, Little Thatch Island, MCZ 180273, 71.1, 11.8, 0.166, 8.69, 0.122, 1.71, 0.024, 1.07, 0.015, 6.80, 0.096, 34, 63, 67, 130, 10, 15, 25, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, 2.18, 1.22, 1.79, 0.031, 0.017, 2

*semitaeniata*, USVI, MCZ 36594, 54.3, N, N, 8.82, 0.162, N, N, 1.05, 0.019, 6.46, 0.119, 31, N, N, N, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, N, 2, 2, 1, 2, 2.52, 1.14, 2.21, 0.046, 0.021, 2

*semitaeniata*, USVI, MCZ 36595, 67.0, 11.4, 0.170, 8.11, 0.121, 1.73, 0.026, 1.36, 0.020, 6.58, 0.098, 32, 62, 65, 127, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 1, N, N, 1, 2, 2.19, 0.98, 2.24, 0.033, 0.015, 2

*semitaeniata*, USVI, UMMZ 80585, 63.4, 11.7, 0.185, 8.75, 0.138, 1.73, 0.027, 1.21, 0.019, 6.96, 0.110, 32, 61, 68, 129, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.23, 1.27, 1.76, 0.035, 0.020, 2

*semitaeniata*, USVI, UMMZ 73821A, 52.2, 10.1, 0.193, 6.91, 0.132, 1.58, 0.030, 0.900, 0.017, 6.26, 0.120, 32, N, 67, N, 13, 19, 32, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 3, 1.93, 0.92, 2.10, 0.037, 0.018, 2

*semitaeniata*, USVI, UMMZ 239605, 77.6, 12.5, 0.161, 9.34, 0.120, 1.90, 0.024, 0.870, 0.011, 6.73, 0.087, 32, 63, 65, 128, 11, 15, 26, 2, 2, 2, 4, 4, 6, 2, 1, 1, 2, 1, 2, 2.16, 1.06, 2.04, 0.028, 0.014, 2

*semitaeniata*, USVI, MCZ R36592, 66.1, 11.2, 0.169, 8.30, 0.126, 1.67, 0.025, 0.840, 0.013, 6.09, 0.092, 32, 62, 65, 127, 13, 15, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.17, 1, 2.17, 0.033, 0.015, 2

*semitaeniata*, USVI, MCZ R36593, 65.5, 12.0, 0.183, 9.04, 0.138, 2.02, 0.031, 1.49, 0.023, 6.32, 0.096, 30, 61, 61, N, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, 2.18, 1.12, 1.95, 0.033, 0.017, 2

*semitaeniata*, British Virgin Islands, MCZ 178430, 37.9, 7.35, 0.194, 5.21, 0.137, 0.820, 0.022, 0.940, 0.025, 3.96, 0.104, 32, 63, 68, 131, 11, 16, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, 1.48, 0.850, 1.741, 0.039, 0.022, 2

*semitaeniata*, British Virgins, MPM 26275, 67.1, 11.4, 0.170, 8.61, 0.128, 1.96, 0.029, 1.26, 0.019, 7.12, 0.106, 32, 61, 60, 121, 12, 17, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.79, 1.15, 1.56, 0.027, 0.017, 2

*semitaeniata*, British Virgins, UMMZ 80581, 67.4, 12.3, 0.182, 8.41, 0.125, 2.05, 0.030, 1.19, 0.018, 6.96, 0.103, 32, 63, 66, 129, 11, 18, 29, 2, 2, 2, 4, 4, 5, 2, 2, 2, 1, 1, 2, 2.04, 1.05, 1.94, 0.030, 0.016, 2

*semitaeniata*, British Virgin Islands, UMMZ 80582a N, 57.6, 9.7, 0.168, 7.09, 0.123, 1.53, 0.027, 0.94, 0.016, 5.67, 0.098, 32, 65, 69, 134, 11, 14, 25, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, N, N, 1.86, 0.990, 1.88, 0.032, 0.017, 2

*semitaeniata*, British Virgins, UMMZ 239599, 77.8, 12.8, 0.165, 9.43, 0.121, 2.06, 0.026, 1.12, 0.014, 6.49, 0.083, 32, 64, 61, 125, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 3, 2.24, 0.870, 2.58, 0.029, 0.011, 2

*semitaeniata*, British Virgins, UMMZ 239600, 67.4, 11.9, 0.177, 8.74, 0.130, 1.97, 0.029, 1.19, 0.018, 6.7, 0.099, 34, N, 67, N, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 2, 2, 2, 1, 2, 2.17, 1.12, 1.94, 0.032, 0.017, 2

*semitaeniata*, British Virgins, UMMZ 80584, 41.1, 8.36, 0.203, 5.45, 0.133, 1.45, 0.035, 0.880, 0.021, 4.46, 0.109, 34, 63, 68, 131, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.64, 0.680, 2.41, 0.040, 0.017, 2

*semitaeniata*, British Virgin Islands, UPRRP 5521, 64.1, 11.0, 0.172, 8.77, 0.137, 1.61, 0.025, 1.19, 0.019, 6.09, 0.095, 33, 64, 61, 125, 11, 16, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1.50, 2.45, 0.730, 3.36, 0.038, 0.011, 2

*semitaeniata*, British Virgin Islands, UPRRP 5522, 34.2, 6.83, 0.200, 4.78, 0.140, 0.940, 0.027, 0.830, 0.024, 3.60, 0.105, 34, 64, 66, 130, 14, 16, 30, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1.50, 1.60, 0.760, 2.11, 0.047, 0.022, 2

*semitaeniata*, British Virgin Islands, RT 947, 64.8, 11.7, 0.181, 7.93, 0.122, 2.10, 0.032, 1.24, 0.019, 7.14, 0.110, 32, 59, 63, 122, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.21, 0.94, 2.35, 0.034, 0.015, 2

*semitaeniata*, British Virgin Islands, KU 242071, 49.5, 9.70, 0.196, 6.65, 0.134, 1.56, 0.032, 0.880, 0.018, 5.32, 0.107, 33, 62, 64, 126, 13, 17, 30, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.8, 0.94, 1.92, 0.036, 0.019, 2

*semitaeniata*, British Virgin Islands, KU 242072, 71.1, 11.9, 0.167, 9.12, 0.128, 1.8, 0.025, 0.85, 0.012, 6.54, 0.092, 34, 61, 65, 126, 11, 15, 26, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.18, 1.26, 1.73, 0.031, 0.018, 1

*semitaeniata*, British Virgin Islands, KU 242073, 66.7, 12.1, 0.181, 8.54, 0.128, 1.75, 0.026, 1.22, 0.018, 6.24, 0.094, 33, 61, 61, 122, 13, 15, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1, 2.30, 0.860, 2.67, 0.034, 0.013, 2

*semitaeniata*, British Virgin Islands, KU 242074, 77.8, 12.6, 0.162, 9.48, 0.122, 1.87, 0.024, 1.07, 0.014, 6.48, 0.083, 34, 62, 68, 130, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, N, 2.34, 1.09, 2.15, 0.030, 0.014, 1

*semitaeniata*, British Virgin Islands, KU 242075, 82.9, 13.2, 0.159, 10.1, 0.122, 2.13, 0.026, 0.790, 0.010, 7.27, 0.088, 32, 61, 70, 131, 15, 18, 33, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.12, 1.38, 1.54, 0.026, 0.017, 2

*semitaeniata*, British Virgin Islands, KU 242076, 68.6, 12.1, 0.176, 8.59, 0.125, 1.77, 0.026, 0.910, 0.013, 6.75, 0.098, 32, 61, 63, 124, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.09, 1.06, 1.97, 0.030, 0.015, 2

*semitaeniata*, British Virgin Islands, KU 242077, 61.9, 11.4, 0.184, 8.19, 0.132, 1.77, 0.029, 1.14, 0.018, 6.35, 0.103, 33, 61, 64, 125, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 1, 2.10, 0.790, 2.658, 0.034, 0.013, 1

*semitaeniata*, British Virgin Islands, KU 242078, 53.1, 9.73, 0.183, 7.24, 0.136, 1.32, 0.025, 1.00, 0.019, 5.44, 0.102, 34, 64, 66, 130, 13, 15, 28, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 1.74, 1.1, 1.58, 0.033, 0.021, 2

*semitaeniata*, British Virgin Islands, KU 242079, 77.7, 12.5, 0.161, 9.67, 0.124, 1.93, 0.025, 1.13, 0.015, 6.88, 0.089, 32, 64, N, N, 12, 16, 28, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.08, 1.12, 1.86, 0.027, 0.014, 1

*semitaeniata*, British Virgin Islands, KU 242080, 71.7, 11.7, 0.163, 9.39, 0.131, 1.68, 0.023, 0.940, 0.013, 6.71, 0.094, 34, 61, 59, 120, 12, 15, 27, 2, 2, 2, 3, 4, 6, 2, 1, 2, 1, 1, 3, 2.22, 0.940, 2.36, 0.031, 0.013, 1

*semitaeniata*, British Virgin Islands, KU 242081, 45.7, 8.77, 0.192, 6.34, 0.139, 1.29, 0.028, 1.04, 0.023, 4.55, 0.100, 34, 61, 65, 126, 14, 17, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.80, 0.880, 2.05, 0.039, 0.019, 2

*semitaeniata*, British Virgin Islands, MCZ 176330, 72.6, 11.8, 0.163, 9.51, 0.131, 1.95, 0.027, 1.07, 0.015, 6.47, 0.089, 32, 59, 60, 119, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.51, 1.05, 2.39, 0.035, 0.014, 2

*semitaeniata*, British Virgin Islands, MCZ R-176332, 74.7, 13.7, 0.183, 10.1, 0.135, 2.44, 0.033, 1.30, 0.017, 6.29, 0.084, 34, 60, 65, 125, 13, 18, 31, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, 3.21, 1.96, 1.64, 0.043, 0.026, 1

*semitaeniata*, British Virgin Islands, MCZ 176739, 81.3, 13.2, 0.162, 9.90, 0.122, 1.62, 0.020, 1, 0.012, 6.94, 0.085, 32, 60, 66, 126, 13, 14, 27, 2, 2, 5, 4, 4, 6, 2, 1, 2, 1, 1, 1, 2.43, 1.09, 2.23, 0.030, 0.013, 1

*semitaeniata*, British Virgin Islands, MCZ 176740, 29.7, 7.40, 0.249, 4.73, 0.159, 0.940, 0.032, 0.74, 0.025, N, N, 32, 57, 64, 121, 13, 16, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.57, 0.560, 2.80, 0.053, 0.019, 1

*semitaeniata*, British Virgin Islands, MCZ 176741, 30.6, 7.15, 0.234, 4.64, 0.152, 1.02, 0.033, 0.790, 0.026, N, N, 32, 59, 67, 126, 10, 13, 23, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 1.65, 0.550, 3.00, 0.054, 0.018, 1

*semitaeniata*, British Virgin Islands, MCZ 176742, 29.5, 6.99, 0.237, 4.42, 0.150, 0.970, 0.033, 0.810, 0.027, 3.29, 0.112, 32, 61, 68, 129, 12, N, N, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.55, 0.52, 2.98, 0.053, 0.018, 1

*semitaeniata*, British Virgin Islands, MCZ 176743, 31.7, 7.40, 0.233, 4.59, 0.145, 1.00, 0.032, 1.07, 0.034, 5.82, 0.184, 30, 62, 67, 129, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, 1.55, 0.56, 2.77, 0.049, 0.018, 1

*semitaeniata*, British Virgin Islands, MCZ 182093, 75.2, 12.4, 0.165, 9.11, 0.121, 1.66, 0.022, 1.17, 0.016, 6.86, 0.091, 34, 60, 64, 124, 12, 17, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.49, 1.14, 2.18, 0.033, 0.015, 2

*semitaeniata*, British Virgin Islands, AMNH R-99522, 57.4, 11.7, 0.204, 8.68, 0.151, 1.89, 0.033, N, N, N, N, 30, N, N, N, N, 17, N, 2, 2, 2, 4, 4, 6, N, 1, 2, 1, N, 2, 2.10, 1.24, 1.69, 0.037, 0.022, 2

*semitaeniata*, British Virgin Islands, MCZ 166975, 56.6, 9.64, 0.170, 6.95, 0.123, 1.17, 0.021, 0.950, 0.017, 5.72, 0.101, 32, 63, 61, 124, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 1.86, 1.02, 1.82, 0.033, 0.018, 2

*semitaeniata*, British Virgin Islands, UMMZ 200131, 33.3, 7.26, 0.218, 4.77, 0.143, 1.19, 0.036, 0.920, 0.028, 3.53, 0.106, 34, 63, 59, 122, 14, 17, 31, 2, 2, 2, 4, 4, 6, 1, 1, 2, 1, 1, 2, 1.72, 0.820, 2.10, 0.052, 0.025, 1

*semitaeniata*, British Virgin Islands, MCZ R-176327, 64.2, 12.1, 0.188, 8.57, 0.133, 1.94, 0.030, 1.28, 0.020, 6.77, 0.105, N, 61, N, N, 12, 15, 27, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.08, 1.24, 1.68, 0.032, 0.019, 2

*semitaeniata*, British Virgin Islands, MCZ R-176328, 72.4, 12.3, 0.170, 8.88, 0.123, 1.78, 0.025, 1.27, 0.018, 7.66, 0.106, 32, 62, 61, 123, 11, 15, 26, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.04, 1.08, 1.89, 0.028, 0.015, 1

*semitaeniata*, British Virgin Islands, MCZ R-176329, 80.1, 13.2, 0.165, 9.76, 0.122, 2.09, 0.026, 0.920, 0.011, 6.85, 0.086, 30, 63, 60, 123, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.04, 1.16, 1.76, 0.025, 0.014, 2

*semitaeniata*, British Virgin Islands, MCZ 170883, 76.8, 12.1, 0.158, 9.43, 0.123, 1.70, 0.022, 1.08, 0.014, 6.46, 0.084, 32, 60, 63, 123, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 1, 1, 2, 2.38, 1.48, 1.61, 0.031, 0.019, 2

*semitaeniata*, British Virgin Islands, SBH268163, 72.1, 13.0, 0.180, 10.3, 0.143, 1.90, 0.026, N, N, N, N, 34, 63, 64, 127, 13, 18, 31, 2, 2, 2, 4, 4, 5, N, 1, 2, 2, 1, 2, 2.45, 0.810, 3.03, 0.034, 0.011, 1

*semitaeniata*, British Virgin Islands, N, 73.5, 12.3, 0.167, 9.62, 0.131, 1.79, 0.024, 0.970, 0.013, 6.26, 0.085, 33, 65, 65, 130, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.5, 0.880, 2.84, 0.034, 0.012, 2

*semitaeniata*, British Virgin Islands, UPRRP 5503, 68.7, 10.9, 0.159, N, N, 1.73, 0.025, 1, 0.015, 6.17, 0.090, 32, 62, 59, 121, 13, 13, 26, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, N, N, N, N, N, 2

*semitaeniata*, British Virgin Islands, MCZ R-176331, 77.4, 12.2, 0.158, 9.89, 0.128, 1.87, 0.024, 0.92, 0.012, 6.82, 0.088, 32, 63, 61, 124, 13, 15, 28, 2, 2, 2, 4, 4, 5, 1, 1, 2, 2, 1, 2, 2.92, 1.07, 2.73, 0.038, 0.014, 2

*semitaeniata*, British Virgin Islands, UMMZ 74427, 75.9, 12.8, 0.169, 9.42, 0.124, 1.97, 0.026, 1.31, 0.017, 6.77, 0.089, 32, 64, 65, 129, 11, 15, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 2, 2.35, 1.24, 1.90, 0.031, 0.016, 2

*semitaeniata*, British Virgin Islands, UPRRP 5489, 69.0, 11.0, 0.159, 8.18, 0.119, 1.62, 0.023, 0.940, 0.014, 6.09, 0.088, 30, 62, 62, 124, 12, 14, 26, 2, 2, 2, 4, 4, 5, 2, 1, 2, 1, 1, 1, 2.2, 0.880, 2.50, 0.032, 0.013, 2

*semitaeniata*, British Virgin Islands, KU 242064, 49.5, 8.72, 0.176, 6.58, 0.133, 1.16, 0.023, 0.670, 0.014, 5.17, 0.104, 33, 63, 65, 128, 12, 15, 27, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 2, 2, 1.79, 0.620, 2.89, 0.036, 0.013, 2

*semitaeniata*, US Virgin Islands, KU 242175, 71.6, 12.7, 0.177, 9.24, 0.129, 2.25, 0.031, 1.19, 0.017, 7.57, 0.106, 32, 61, 64, 125, 15, 18, 33, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 2, 2.45, 1.51, 1.62, 0.034, 0.021, 1

*semitaeniata*, US Virgin Islands, UMMZ 80586, 65.3, 11.9, 0.182, 8.41, 0.129, 2.03, 0.031, 0.740, 0.011, 6.23, 0.095, 32, 61, 67, 128, 11, 14, 25, 2, 4, 2, 4, 3, 5, 2, 2, 2, 2, 1, 2, 1.61, 1.26, 1.28, 0.025, 0.019, 2

*semitaeniata*, US Virgin Islands, MCZ R-42380, 66.8, 11.8, 0.177, 8.83, 0.132, 1.92, 0.029, 0.730, 0.011, 6.48, 0.097, 30, N, N, N, 12, 14, 26, 2, 2, 2, 4, 3, 5, 2, 1, 2, 1, 1, 2, 2.16, 1.00, 2.16, 0.032, 0.015, 2

*semitaeniata*, British Virgin Islands, USNM 304550, 55.3, 10.4, 0.188, 7.43, 0.134, 1.51, 0.027, 1, 0.018, 6.01, 0.109, 34, 63, 63, 126, 13, 16, 29, 2, 2, 2, 4, 4, 5, 2, 1, 2, 2, 1, 2, 2.03, 1, 2.03, 0.037, 0.018, 2

*semitaeniata*, British Virgin Islands, MCZ 158940, 70.3, 12.3, 0.175, 9.36, 0.133, 1.65, 0.023, 1.16, 0.017, 7.17, 0.102, 32, 60, 58, 118, 12, 17, 29, 2, 2, 2, 4, 4, 6, 2, 1, 2, 2, 1, 1, 2.18, 1.26, 1.73, 0.031, 0.018, 2

*semitaeniata*, US Virgin Islands, UC 761, 85.8, 13.8, 0.161, 11.9, 0.139, 2.28, 0.027, 1.34, 0.016, 8.02, 0.093, 34, 62, 67, 129, 12, 15, 27, 2, 2, 2, 4, 4, N, N, N, N, N, N, N, N, 2.48, 1.31, 1.89, 0.029, 0.015, N

*semitaeniata*, US Virgin Islands, UC 762, 76.7, 13.3, 0.173, 10.3, 0.134, 2.14, 0.028, 1.06, 0.014, 7.15, 0.093, 34, 62, 64, 126, 12, 15, 27, 2, 2, 2, 4, 4, N, N, N, N, N, N, N, N, 2.41, 1.16, 2.08, 0.031, 0.015, N



*unimarginata*, Costa Rica, TCWC 17164, 54.5, 10.2, 0.187, 7.58, 0.139, 1.45, 0.027, 0.860, 0.016, 6.46, 0.119, 30, 54, 64, 118, 14, 18, 32, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*unimarginata*, Costa Rica, RT 1761, 89.0, 13.9, 0.156, 10.8, 0.121, 2.62, 0.029, 1.21, 0.014, 8.65, 0.097, 32, 57, 62, 119, 15, 17, 32, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 2, N, N, N, N, N, 1  
*unimarginata*, Panama, CM 43593, 84.5, 13.9, 0.164, 10.3, 0.122, 2.12, 0.025, 1.01, 0.012, 7.58, 0.090, 30, 61, 63, 124, 11, 16, 27, 2, 2, 2, 4, 4, 5, 1, 1, 1, 2, 1, 1, N, N, N, N, N, 2  
*unimarginata*, Panama, CM 43594, 69.9, 12.1, 0.173, 9.24, 0.132, 1.77, 0.025, 1.06, 0.015, 7.28, 0.104, 32, 60, 65, 125, 13, 16, 29, 2, 2, 2, 4, 3, 5, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*unimarginata*, Panama, CM 43595, 75.2, 12.8, 0.170, 10.5, 0.140, 1.65, 0.022, 0.960, 0.013, 7.71, 0.103, 32, 63, 68, 131, 12, 16, 28, 2, 2, 2, 4, 4, 6, 1, 1, 2, 2, 1, 1, N, N, N, N, N, 1  
*unimarginata*, Panama, UPRRP 6495, 80.2, 14.4, 0.180, 10.9, 0.136, 2.26, 0.028, 1.31, 0.016, 8.77, 0.109, 30, 57, 60, 117, 13, 18, 31, 2, 2, 2, 4, 4, 6, 1, 1, 1, 2, 1, 1, N, N, N, N, N, 2  
*unimarginata*, Panama, UF 143888, 39.6, 8.47, 0.214, 6.05, 0.153, 1.25, 0.032, 0.610, 0.015, 4.07, 0.103, 30, 57, 63, 120, 12, 16, 28, 2, 2, 2, 4, 5, 5, 1, 1, 2, 2, 2, 1, N, N, N, N, N, 2  
*unimarginata*, Panama, UF 143889, 53.3, 10.4, 0.195, 7.44, 0.140, 1.53, 0.029, 0.930, 0.017, 6.09, 0.114, 28, 55, 60, 115, 13, 16, 29, 1, 2, 2, 3, 4, 5, 1, 2, 2, 1, 1, 1, N, N, N, N, N, 2  
*unimarginata*, Panama, UF 143890, 32.6, 8.04, 0.247, 5.27, 0.162, 1.26, 0.039, 0.640, 0.020, 3.83, 0.117, 30, 57, 65, 122, 13, 18, 31, 2, 2, 2, 4, 4, 6, 1, 1, 1, 2, 1, 1, N, N, N, N, N, 2

APPENDIX B. SPECIMEN LOCALITIES.

Species	Museum Number	Tissue Voucher	GenBank Accession Number			
			Cyt B	12s	16s	MYH
<i>Mabuya agilis</i> 1	LG 464	NA	DQ239175	DQ 239256	DQ 238934	DQ 239413
<i>Mabuya agilis</i> 2	MRT 1206	NA	DQ239152	DQ 239233	DQ 238911	DQ 239393
<i>Mabuya agilis</i> 3	E11108	NA	EU443102	AY 151428	NA	NA
<i>Mabuya agilis</i> 4	SC 21	NA	DQ239170	DQ 239251	NA	NA
<i>Mabuya agilis</i> 5	MRT 3951	NA	DQ239126	DQ 239207	DQ 238885	DQ 239370
<i>Mabuya agmosticha</i> 1	LG 902	NA	DQ239134	DQ 239215	DQ 238893	DQ 239377
<i>Mabuya agmosticha</i> 2	LG 901	NA	DQ239133	DQ 239214	DQ 238892	DQ 239376
<i>Mabuya alliacea</i> 1	not collected	NA	EU443125	EU 477271	NA	NA
<i>Mabuya altamazonica</i> 1	MBS 001	NA	DQ239129	DQ 239210	DQ 238888	DQ 239372
<i>Mabuya altamazonica</i> 2	OMNH 37191 (LSUMZ H-14114)	NA	GQ982545	GQ982525	NA	NA
<i>Mabuya altamazonica</i> 3	MNHN 2002.0291	NA	EU443103	DQ 368663	NA	NA
<i>Mabuya altamazonica</i> 4	MHNC 6703	NA	EU515212	EU 515210	NA	NA
<i>Mabuya bistrriata</i> 1	OMNH 37183 (LSUMZ H-14104)	NA	EU443104	EU 477258	NA	NA
<i>Mabuya bistrriata</i> 2	not collected	NA	EU443105	DQ 368664	NA	NA
<i>Mabuya bistrriata</i> 3	SBH 267186	267186	NA	NA	NA	NA
<i>Mabuya brachypoda</i> 1	UTA 41513	NA	EU443126	EU 477272	NA	NA
<i>Mabuya brachypoda</i> 2	SMF 79851	NA	NA	AB 057378	NA	NA
<i>Mabuya brachypoda</i> 3	UTA 41227	NA	EU443127	EU 477273	NA	NA
<i>Mabuya brachypoda</i> 4	not collected	NA	EU443128	EU 477274	NA	NA
<i>Mabuya brachypoda</i> 5	not collected	NA	EU443129	EU 477275	NA	NA
<i>Mabuya caissara</i> 1	MNRJ9485	NA	NA	AF 548788	AF 549176	NA
<i>Mabuya caissara</i> 2	MNRJ9476	NA	NA	AF548787	AF549175	NA
<i>Mabuya carvalhoi</i> 1	OMNH 36332 (LSUMZ H-12420)	NA	EU443106	EU477259	DQ238945	DQ239423
<i>Mabuya cochabambae</i> 1	ZFMK 72151	NA	NA	AF202625	AF202630	NA
<i>Mabuya croizati</i> 1	MHNLS 17670	NA	EU443107	EU477260	NA	NA
<i>Mabuya dominicana</i> 1	MNHN 2003.0838	NA	EU443114	EU477264	NA	NA
<i>Mabuya dominicana</i> 2	not collected	NA	EU443115	EU477265	NA	NA
<i>Mabuya dominicana</i> 3	SBH 268001	268001	NA	NA	NA	NA
<i>Mabuya dorsivittata</i> 1	E11106	NA	EU443108	AY151426	AY151460	NA
<i>Mabuya dorsivittata</i> 2	LG 1089	NA	DQ239176	DQ239257	DQ238935	DQ239414
<i>Mabuya dorsivittata</i> 3	LAv-5000	NA	DQ239149	DQ239230	DQ238908	DQ239391



<i>Mabuya falconensis</i> 1	MHNLS 17095	NA	EU443108	AY151426	NA	NA
<i>Mabuya falconensis</i> 2	not collected	NA	EU443110	EU477262	NA	NA
<i>Mabuya frenata</i> 1	LG 861	NA	DQ239128	DQ239209	DQ238887	DQ239371
<i>Mabuya frenata</i> 2	E11107	NA	EU443111	AY151427	AY151461	NA
<i>Mabuya frenata</i> 3	SC 28	NA	DQ239173	DQ239254	DQ238932	NA
<i>Mabuya frenata</i> 4	PNA 77	NA	DQ239165	DQ239246	DQ238924	NA
<i>Mabuya fulgida</i> 1	SBH 267953	267953	NA	NA	NA	NA
<i>Mabuya fulgida</i> 2	SBH 267954	267954	NA	NA	NA	NA
<i>Mabuya fulgida</i> 3	SBH 267955	267955	NA	NA	NA	NA
<i>Mabuya guaporicola</i> 1	E11101	NA	EU443112	AY151434	AY151468	NA
<i>Mabuya guaporicola</i> 2	LG 1574	NA	DQ239169	DQ239250	DQ238928	DQ239409
<i>Mabuya guaporicola</i> 3	PNA 185	NA	DQ239141	DQ239222	DQ238900	NA
<i>Mabuya guaporicola</i> 4	UTA 55700	NA	EU443113	EU477263	NA	NA
<i>Mabuya heathi</i> 1	MRT 3671	NA	DQ239163	DQ239244	DQ238922	DQ239406
<i>Mabuya heathi</i> 2	907101	NA	DQ239151	DQ239232	DQ238910	DQ239392
<i>Mabuya heathi</i> 3	907011	NA	DQ239150	DQ239231	DQ238909	NA
<i>Mabuya heathi</i> 4	MNRJ 6655	NA	NA	AF548785	AF549173	NA
<i>Mabuya heathi</i> 5	MNRJ 6663	NA	NA	AF548786	AF549174	NA
<i>Mabuya heathi</i> 6	MNRJ 8361	NA	NA	AF548784	AF549172	NA
<i>Mabuya lineolata</i> 1	SBH 160766	160766	NA	NA	NA	NA
<i>Mabuya macleani</i> 1	SBH 268017	268017	NA	NA	NA	NA
<i>Mabuya macrorhyncha</i> 1	LG 1102	NA	DQ239162	DQ239243	DQ238921	DQ239405
<i>Mabuya macrorhyncha</i> 2	LG 1103	NA	DQ239132	DQ239213	DQ238891	DQ239375
<i>Mabuya meridensis</i> 1	not collected	NA	EU443116	EU477266	NA	NA
<i>Mabuya meridensis</i> 2	MHNLS 17081	NA	EU443117	EU477267	NA	NA
<i>Mabuya nebulosylvestris</i> 1	MHNLS 17088	NA	EU443134	EU477280	NA	NA
<i>Mabuya nebulosylvestris</i> 2	MNHN 2007.0272	NA	EU443135	EU477281	NA	NA
<i>Mabuya nebulosylvestris</i> 3	MHNLS 17106	NA	EU443136	EU477282	NA	NA
<i>Mabuya nebulosylvestris</i> 4	MHNLS 17330	NA	EU443137	EU477283	NA	NA
<i>Mabuya nebulosylvestris</i> 5	not collected	NA	EU443138	EU477284	NA	NA
<i>Mabuya nebulosylvestris</i> 6	MHNLS 16649	NA	EU443139	EU477285	NA	NA
<i>Mabuya nebulosylvestris</i> 7	MHNLS 17093	NA	EU443140	EU477286	NA	NA
<i>Mabuya nebulosylvestris</i> 8	MHNLS 17103	NA	EU443141	EU477287	NA	NA
<i>Mabuya nigropalmata</i> 1	MHNC 5718	NA	EU515213	EU515211	NA	NA
<i>Mabuya nigropunctata</i> 1	LSUMZ H-13610	NA	DQ239188	DQ238269	DQ238947	NA

<i>Mabuya nigropunctata</i> 2	LSUMZ H-13900	NA	DQ239109	DQ239190	DQ238868	DQ239353
<i>Mabuya nigropunctata</i> 3	MRT 6300	NA	DQ239130	DQ239211	DQ238889	DQ239373
<i>Mabuya nigropunctata</i> 4	MRT 6303	NA	DQ239131	DQ239212	DQ238890	DQ239374
<i>Mabuya nigropunctata</i> 5	LSUMZ H-16446	NA	GQ982546	GQ982526	NA	NA
<i>Mabuya nigropunctata</i> 6	OMNH 37687 (LSUMZ H-16441)	NA	GQ982547	GQ982527	NA	NA
<i>Mabuya nigropunctata</i> 7	LSUMZ H-16489	NA	DQ239111	DQ239192	DQ238870	DQ239355
<i>Mabuya nigropunctata</i> 8	LSUMZ H-16490	NA	DQ239112	DQ239193	DQ238871	DQ239356
<i>Mabuya nigropunctata</i> 9	OMNH 37186 (LSUMZ H-14107)	NA	GQ982548	GQ982528	NA	NA
<i>Mabuya nigropunctata</i> 10	CHUNB 9624	NA	NA	AF548783	AF549171	NA
<i>Mabuya nigropunctata</i> 11	MRT 154	NA	DQ239159	DQ239240	DQ238918	DQ239403
<i>Mabuya nigropunctata</i> 12	MRT 097	NA	DQ239157	DQ239238	DQ238916	DQ239401
<i>Mabuya nigropunctata</i> 13	LG 1085	NA	DQ239168	DQ239249	DQ238927	DQ239408
<i>Mabuya nigropunctata</i> 14	967956	NA	DQ239174	DQ239255	DQ238933	NA
<i>Mabuya nigropunctata</i> 15	967904	NA	DQ239180	DQ239261	DQ238939	NA
<i>Mabuya nigropunctata</i> 17	LG 1561	NA	DQ239172	DQ239253	DQ238931	DQ239412
<i>Mabuya nigropunctata</i> 18	LSUMZ H-14223	NA	EU443118	DQ368667	NA	NA
<i>Mabuya nigropunctata</i> 19	OMNH 36830 (LSUMZ H-14238)	NA	GQ982549	GQ982529	NA	NA
<i>Mabuya nigropunctata</i> 20	MRT 916872	NA	DQ239177	DQ239258	DQ238936	DQ239415
<i>Mabuya nigropunctata</i> 21	LG 756	NA	DQ239158	DQ239239	DQ238917	DQ239402
<i>Mabuya nigropunctata</i> 22	MRT 2502	NA	DQ239167	DQ239248	DQ238926	DQ239407
<i>Mabuya nigropunctata</i> 23	OMNH 37414 (LSUMZ h17860)	NA	GQ982550	GQ982530	NA	NA
<i>Mabuya nigropunctata</i> 24	OMNH 37417 (LSUMZ h17865)	NA	GQ982551	GQ982531	NA	NA
<i>Mabuya nigropunctata</i> 25	OMNH 37416 (LSUMZ h17863)	NA	GQ982552	GQ982532	NA	NA
<i>Mabuya nigropunctata</i> 26	OMNH 37413 (LSUMZ h17859)	NA	GQ982553	GQ982533	NA	NA
<i>Mabuya nigropunctata</i> 27	LSUMZ H17864	NA	DQ239113	DQ239194	DQ238872	DQ239357
<i>Mabuya nigropunctata</i> 28	OMNH 36316 (LSUMZ H12332)	NA	GQ982554	GQ982534	NA	NA
<i>Mabuya nigropunctata</i> 29	OMNH 36318 (LSUMZ H12369)	NA	EU443119	DQ368668	NA	NA
<i>Mabuya nigropunctata</i> 30	OMNH 36317 (LSUMZ H12365)	NA	GQ982555	GQ982535	NA	NA
<i>Mabuya nigropunctata</i> 31	LSUMZ H12311	NA	DQ239187	DQ239268	DQ238946	DQ239424
<i>Mabuya nigropunctata</i> 32	E111016	NA	EU443120	AY151438	AY151484	NA
<i>Mabuya nigropunctata</i> 33	BPN 160	NA	GQ982556	GQ982536	NA	NA

<i>Mabuya nigropunctata</i> 34	not collected	NA	GQ982557	GQ982537	NA	NA
<i>Mabuya nigropunctata</i> 35	not collected	NA	GQ982558	GQ982538	NA	NA
<i>Mabuya nigropunctata</i> 36	MNHN 2005-9719	NA	GQ982559	DQ368666	NA	NA
<i>Mabuya nigropunctata</i> 37	MNHN 2005.9721	NA	GQ982560	GQ982539	NA	NA
<i>Mabuya nigropunctata</i> 38	MNHN 2005.9717	NA	GQ982561	GQ982540	NA	NA
<i>Mabuya nigropunctata</i> 39	MNHN 2005.9720	NA	GQ982562	GQ982541	NA	NA
<i>Mabuya nigropunctata</i> 40	Michel Blanc	NA	GQ982563	GQ982542	NA	NA
<i>Mabuya nigropunctata</i> 41	MNHN 2004.0103	NA	GQ982564	GQ982543	NA	NA
<i>Mabuya nigropunctata</i> 42	MHNLS 17080	NA	EU443121	EU477268	NA	NA
<i>Mabuya nigropunctata</i> 43	SBH 267187	267187	NA	NA	NA	NA
<i>Mabuya n. sp. 1A</i>	E11103	NA	GQ982565	AY151436	AY151470	NA
<i>Mabuya n. sp. 1B</i>	E11104	NA	GQ982566	AY151437	AY151471	NA
<i>Mabuya n. sp. 1C</i>	SBH 268428	268428	NA	NA	NA	NA
<i>Mabuya n. sp. 1D</i>	SBH 239835	239835	NA	NA	NA	NA
<i>Mabuya n. sp. 1E</i>	WES 636	NA	GQ982567	GQ982544	NA	NA
<i>Mabuya n. sp. 8A</i>	ZFMK 62603	NA	NA	AY070339	NA	NA
<i>Mabuya n. sp. 12A</i>	SBH 266355	266355	NA	NA	NA	NA
<i>Mabuya n. sp. 12B</i>	SBH 266356	266356	NA	NA	NA	NA
<i>Mabuya n. sp. 12C</i>	SBH 266357	266357	NA	NA	NA	NA
<i>Mabuya n. sp. 13A</i>	SBH 268453	268453	NA	NA	NA	NA
<i>Mabuya n. sp. 17A</i>	SBH 192877	192877	NA	NA	NA	NA
<i>Mabuya n. sp. 18A</i>	MNHN 2003.0844	NA	EU443122	EU477269	NA	NA
<i>Mabuya n. sp. 18B</i>	MNHN 2003.0843	NA	EU443123	NA	NA	NA
<i>Mabuya n. sp. 18C</i>	SBH 267292	267292	NA	NA	NA	NA
<i>Mabuya n. sp. 18D</i>	SBH 267291	2672921	NA	NA	NA	NA
<i>Mabuya semitaeniata</i> 1	YPM 15082	NA	EU443124	EU477270	NA	NA
<i>Mabuya semitaeniata</i> 2	SBH 268163	268163	NA	NA	NA	NA
<i>Mabuya sloanii</i> 1	SBH 266856	266856	NA	NA	NA	NA
<i>Mabuya sloanii</i> 2	SBH 268449	268449	NA	NA	NA	NA
<i>Mabuya sloanii</i> 3	SBH 268450	268450	NA	NA	NA	NA
<i>Mabuya quinquetaeniata</i>	BYU 47330	NA	DQ239183	DQ239264	DQ238942	DQ239420
<i>Mabuya zuliae</i> 1	MHNLS 16676	NA	EU443130	EU477276	NA	NA
<i>Mabuya zuliae</i> 2	MHNLS 16677	NA	EU443131	EU477277	NA	NA
<i>Mabuya zuliae</i> 3	MHNLS 16647	NA	EU443132	EU477278	NA	NA
<i>Mabuya zuliae</i> 4	MNHN 2007.0273	NA	EU443133	EU477279	NA	NA

ACADEMIC VITAE

**CAITLIN E. CONN**

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**EDUCATION**

**The Pennsylvania State University**, May 2010  
Eberly College of Science; Schreyer Honors College  
Bachelor of Science in Biology – Vertebrate Physiology option

**THESIS TITLE**

Evolution and Extinction of Caribbean Skinks (Scincidae)

**THESIS SUPERVISOR**

Dr. S. Blair Hedges, Professor of Biology

**RESEARCH EXPERIENCE**

**Mueller Lab: Department of Biology** (Prof. S. Blair Hedges), University Park, PA  
*Schreyer Scholar – Researcher* *January 2008-present*

Self-directed honors research project  
morphologically analyzed over 700 museum specimens representing 50  
lizard species  
amplified and obtained DNA sequence for four genes of 10 species via  
PCR  
determined the molecular phylogeny and evolutionary history of these  
lizard species

**Mueller Lab: Department of Biology** (Prof. S. Blair Hedges), University Park, PA  
*NSF REU Fellow* *May 2009-July 2009*  
*June 2010-August 2010*

Performed laboratory procedures, recorded and analyzed data collected

**WORK EXPERIENCE**

**Dr. S. Blair Hedges Evolutionary Lab**

*NSF REU Fellow* *May 2009-July 2009*  
*June 2010-August 2010*

Performed laboratory procedures, recorded and analyzed data collected

**The Pennsylvania State University**

*Proctor/grader* *September 2010-present*

Proctored and graded chemistry exams from five different classes

**COMMUNITY SERVICE**

**Centre County PAWS**

*July 2008- Jan.2009*  
cared for dogs and puppies at the shelter

**Centre Intermediate Unit**

*January 2011-Present*

provided English lessons to an ESL student

taught computer, reading, and writing skills to an adult learner

**Juniata County Food Pantry**

*January 2011- Present*

distributed grocery items to patrons

stocked shelves and organized donations in storage

**HONORS AND ACTIVITIES**

American Quarter Horse Association, amateur member

Penn State Science and the Bible Club, member, President (2010-2011)

CIU #10 Development Center for Adults Tutor of the Year 2010-2011 (2011)

Schreyer Scholar (2007-2011)

Academic Excellence Scholarship (2007-2011)

Dean's List eight out of eight semesters (3.5 or greater on a 4.0 scale)