Supplementary Information 1

Table S1. Comparison of rates of morphological evolution using principal component axes for dataset excluding *Anolis onca*. Subset rates inferred to be greater than rates in at least one other geographic subset by AIC_c tests are shaded; those inferred to be significantly greater by likelihood-ratio tests appear in bold. Substantial rate differences are described in the far right column. A dagger (†) indicates moderate AIC_c support for multiple rates among group pairs and two daggers (††) indicate strong AIC_c support for multiple rates. An asterisk (*) indicates that likelihood-ratio tests support multiple rates with $p < 0.05$ and two asterisks (**) indicate support of multiple rates with $p < 0.001$.

Character	% Var. Explained	M1 Rate	C Rate	M2 Rate	Single Rate	Comparisons
PC I	39.9	0.030	0.088	0.085	0.084	
PC II	24.3	0.047	0.047	0.093	0.061	M2>C†
PC III	9.5	0.024	0.027	0.028	0.027	
PC IV	5.6	0.005	0.014	0.010	0.012	
PC V	5.5	0.018	0.016	0.015	0.016	
PC VI	3.7	0.001	0.012	0.010	0.011	C>M1†; M2>M1†

Appendix 1a. Species Included in the Study (Phylogenetic Set). Note that *Chamaeleolis* and *Phenacosaurus* phylogenetically arise within *Anolis* (Jackman et al. 1999; Nicholson et al. 2005). Asterisks indicate those species in the "randomly chosen" subset of Caribbean species.

Caribbean Species

*Anolis acutus**
A. aliniger
A. allisoni
*A. alumina**
A. angusticeps
*A. argillaceus**
A. armouri
A. bahorucoensis
*A. baleatus**
*A. baracoae**
*A. bartschi**
A. caudalis
*A. chlorocyanus**
A. christophei
A. coelestinus
A. confusus
A. cooki
A. cristatellus
A. cuvieri
*A. darlingtoni**
A. distichus
A. equestris
A. etheridgei
*A. eugenegrahami**
A. evermanni
*A. fowleri**
A. garmani
A. insolitus
A. isolepis
A. jubar
A. krugi
*A. lineatopus**
A. longitibialis
A. loysiana
*A. lucius**

A. marcanoi
*A. marron**
A. maynardi
*A. monticola**
A. occultus
A. opalinus
A. ophiolepis
A. paternus
A. placidus
A. porcatus
A. ricordi
A. sagrei
A. semilineatus
A. shrevei
A. singularis
A. strahmi
A. stratulus
A. valencienni
A. vanidicus
A. vermiculatus
*Chamaeleolis chamaeleonides**
C. porcus

Mainland Species

Clade M1

A. frenatus
A. microtus
A. punctatus
A. transversalis
Phenacosaurus heterodermus

Clade M2

A. altae
A. aquaticus
A. auratus
A. biporcatus
A. bitectus
A. capito
A. crassulus
A. fuscoauratus
A. humilis
A. intermedius
A. isthmicus
A. lemurinus
A. limifrons
A. lionotus
A. meridionalis

A. nebuloides
A. nitens
A. onca
A. ortonii
A. oxylophus
A. pachypus
A. poecilopus
A. polylepis
A. purpurgularis
A. quercorum
A. sericeus
A. trachyderma
A. tropidogaster
A. tropidonotus
A. uniformis

Appendix 1b. Species Included in the Study (Non-Phylogenetic Set). Asterisks denote species residing within mainland clades that have colonized islands. Double asterisks denote Lesser Antillean anoles, an island clade that arose within M1.

Caribbean Species
Anolis koopmani

Mainland Species
Clade M1
*A. aeneus***
A. aequatorialis
*A. agassizi**
*A. blanquillanus***
A. caquetae
A. chloris
A. eulaemus
A. fasciatus
A. festae
A. fraseri
A. gemmosus
A. huilae
A. jacare
A. latifrons
A. maculigula
A. malkini

A. menta
A. peraccae
A. philopunctatus
A. princeps
A. proboscis
*A. richardi***
A. squamulatus
A. vanzolinii
A. vaupesianus
A. ventrimaculatus

Clade M2

A. anisolepis
A. antonii
A. barkeri
A. bombiceps
A. bourgeaei
A. cobanensis
*A. concolor**
A. cuprinus
A. dunni
A. godmani
A. gracilipes
A. kemptoni
A. liogaster
A. lynchi
A. macrolepis
A. mariarum
A. megapholidotus
A. microlepidotus
A. nebulosus
A. notopholis
A. parvauritus
A. pentaprion
*A. pinchoti**
A. rivalis
A. subocularis
A. taylori
A. tolimensis
*A. townsendi**
A. tropidolepis
A. villai
A. vittigerus
A. vociferans

Jackman, T. R., Larson, A., de Queiroz, K. & Losos, J. B. 1999. Phylogenetic relationships and tempo of early diversification in *Anolis* lizards. *Syst. Biol*. **48**, 254-285.