SUPPLEMENTAL INFORMATION

THE ROLE OF INVASIVE SPECIES AND CHARISMATIC MEGAFAUNA IN EVERGLADES HERPETOFAUNAL RESEARCH

HUNTER J. HOWELL AND CHRISTOPHER A. SEARCY

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Table S1. List of published studies, and associated metadata, examining Everglades herpetofauna between 2001 and 2021.

Authors	Year	Title	Urban or Natural	Taxon	Primary Research Category	Funding	State Funding	Federal Funding	Local /Private Funding
		Reduced innate immunity of Cuban			Animal				
Goetz et		Treefrogs at leading edge of range			Health and	Auburn			
al.	2018	expansion	U	Anurans	Disease	University	0	0	1
		Habitat relationships and seasonal			Habitat Use /				
		activity of the greenhouse frog			Distribution /				
Meshaka		(Eleutherodactylus planirostris) in			Niche				
and Layne	2005	Southern Florida	U	Anurans	Modeling	N/A			
					Species				
					Interaction /				
Johnston		Ecology of a freshwater turtle guild			Community				
et al.	2008	in a southern Florida canal system	U	Chelonians	Ecology	N/A			
		Seed consumption by gopher							
		tortoises (Gopherus polyphemus) in							
Figueroa		the globally imperiled pine rockland							
et al.	2021	ecosystem of Southern Florida, USA	U	Chelonians	Dietary	N/A			
		Using canals in Southern Florida to			Habitat Use /				
Ljustina		measure impacts of urbanization on			Distribution /				
and		herpetofaunal community			Niche				
Shelby	2018	composition	U	Chelonians	Modeling	N/A			
		First Reports of Ectoparasites			Animal	USDA,			
		collected from wild-caught exotic			Health and	FWC,			
Corn et al.	2010	reptiles in Florida	U	Community	Disease	USGS	1	1	0
		Toxic, invasive treefrog creates							
Goetz et		evolutionary trap for native			Evolution /	Auburn			
al.	2018	gartersnakes.	U	Community	Taxonomy	University	0	0	1
		Large reptiles and cold temperatures:			Habitat Use /				
		Do extreme cold spells set			Distribution /	NPS,			
Mazzotti		distributional limits for tropical			Niche	USGS,			
et al.	2016	reptiles in Florida?	U	Community	Modeling	UF	0	1	1

						USGS,			
		Transcalization of temperate				USFWS,			
		Tropicalization of temperate			Habitat Use /	State of			
		ecosystems in North America: The			Distribution /	Florida,			
Osland et		northward range expansion of			Niche				
	2021	tropical organisms in response to	TT	G		NASA,	1		0
al.	2021	warming winter temperatures	U	Community	Modeling	etc.	1	1	0
					Habitat Use /				
_		The aggressive invasion of exotic			Distribution /				
Engeman		reptiles in Florida with a focus on			Niche				
et al.	2011	prominent species: A Review	U	Community	Modeling	N/A			
		A runaway train in the making: the			Habitat Use /				
		exotic amphibians, reptiles, turtles,			Distribution /				
		and crocodilians of Florida.			Niche				
Meshaka	2011	Monograph 1	U	Community	Modeling	N/A			
		Verified non-indigenous amphibians							
		and reptiles in Florida from 1863			Habitat Use /				
		through 2010: Outlining the invasion			Distribution /				
Krysko et		process and identifying invasion			Niche				
al.	2011	pathways	U	Community	Modeling	N/A			
		New verified nonindigenous			Habitat Use /				
		amphibians and reptiles in Florida			Distribution /				
Krysko et		through 2015, with a summary of			Niche				
al.	2016	over 152 years of introductions	U	Community	Modeling	N/A			
						SFWMD,			
						USGS			
						Priority			
		Risk assessment of potential				Ecosyste			
Fujisaki et		invasiveness of exotic reptiles			Restoration /	m Studies			
al.	2010	imported to south Florida	U	Community	Conservation	Program	1	1	0
ai.	2010	Landscape and seasonal influences	U	Community	Conscivation	Trogram	1	1	0
Main and		on roadkill of wildlife in Southwest			Restoration /				
Allen	2002	Florida	U	Community	Conservation	N/A			
Alleli	2002		U	Community					
		Non-native species dominate			Species	UM,			
GI.		herpetofaunal communiy patterns in			Interaction /	William			
Clements	• • • •	both native and non-native habitat			Community	Evoy			
et al.	2019	patches in urban Miami-Dade County	U	Community	Ecology	Fund	0	0	1
		Patterns of nonindigenous			Species				
		herpetofaunal richness and biotic			Interaction /	University			
		homogenization among Florida			Community	of			
Smith	2006	counties	U	Community	Ecology	Tennesse	0	0	1

		Reptile surveys of pine Rockland			Species Interaction /				
		habitat in six Miami Dade county			Community				
Enge et al.	2004	parts	U	Community	Ecology	N/A			
						USGS			
Fujisaki et	2012	Use of alligator hole abundance and occupancy rates as indicators for restoration of a human-altered wetland	U	Crocodilians	Habitat Use / Distribution / Niche Modeling	Army Corp of Enginners, USGS, NPS	0	1	0
Rochford		Molecular analyses confirming the introduction of Nile crocodiles, <i>Crocodylus niloticus</i> Laurenti 1768 (Crocodylidae), in southern Florida, with an assessment of potential for			Habitat Use / Distribution / Niche		J	-	3
et al.	2016	invasion	U	Crocodilians	Modeling	N/A NIEHS.			
Burger et		Gender and spatial patterns in metal concentrations in brown anoles (<i>Anolis sagrei</i>) in Southern Florida,			Animal Health and	Institute for Biological			
al.	2004	USA	U	Squamates	Disease	Invasions	0	1	1
Sanger et al.	2018	The effects of thermal stress on the early development of the lizard <i>Anolis sagrei</i>	U	Squamates	Animal Health and Disease	Loyola University of chicago	0	0	1
Tokarz et al.	2002	Effects of testosterone treatment and season on the frequency of dewlap extensions during male-male interactions in the lizard <i>Anolis sagrei</i>	U	Squamates	Animal Health and Disease	NSF	0	1	0
Epstein et al.	2020	Diagnosis and successful medical management of a colonic, urate enterolith in an Argentine Black and White Tegu (Salvator merianae)	U	Squamates	Animal Health and Disease	N/A			
Parker et	2021	using enclosed y-mazes to assess chemosensory behavior in reptiles	U	Squamates	Behavioral Studies	NPS, James Madison university	0	1	1
Kolbe et	2021	Bright lights, big city: an experimental assessment of short-term behaviroal and performance	U	Squamates	Behavioral Studies	University of Rhode Island and	0	1	1
aı.	2021	term benaviroai and performance	U	Squamates	Studies	isiand and	U	1	

		effects of artificial light at night on Anolis lizards				National Geographi c Society			
Stroud et al.	2019	behavioral shifts with urbanization may facilitate biological invasion of a widespread lizard	U	Squamates	Behavioral Studies	Florida Internatio nal University	0	0	1
Aviles- Rodrigues		Escape in the city: urbanization alters			Behavioral	National Geographi c Society, NSF, University of Rhode			
	2019	the escape behavior of Anolis lizards	U	Squamates	Studies	Island	0	1	0
Harvey et	2016	Not seeing is not believing: volunteer beliefs about Burmese pythons in Florida and implications for public participation in invasive species removal	U	Squamates	Community Science and Outreach	FWC, UF	1	0	1
Giery et	2017	Frugivory and seed dispersal by the invasive knight anole (<i>Anolis equestris</i>) in Florida, USA	U	Squamates	Dietary	NSF, Fairchild	0	1	1
Tiatragul	2017	Embryos of non-native anoles are robust to urban thermal environments	U	Squamates	Dietary	NSF, Howard Hughes medical Institute	0	1	1
Chejanovs	2017	An experimental evaluation of foraging decisions in urban and natural forest populations of Anolis lizards	U	Squamates	Dietary	NSF, University of Rhode Island	0	1	1
		First record of invasive Burmese	-			ENP, USGS Greater Everglade s Priority Ecosyste ms			
Hanslowe et al.	2016	python oviposition and brooding inside an anthropogenic structure	U	Squamates	Dietary	Science Program,	0	1	0

	1	I				111000	1	1	
						and USGS			
						Invasive			
						Species			
						Science			
						program			
		Diet of Nile Monitors (Varauns				FWC,			
Mazzotti		niloticus) removed from Palm Beach				SFWMD,			
et al.	2020	and Broward Counties, Florida, USA	U	Squamates	Dietary	and UF	1	1	1
						Miami			
						Dade			
						Parks and			
						Open			
						Spaces,			
						University			
						of Florida,			
						FWC,			
						Evergalde			
						s			
						Cooperati			
						ve			
						Invasive			
		Observations on nesting and clutch				Species			
Smith et		size in <i>Furcifer oustaleti</i> (Oustalet's				Managem			
al.	2016	chameleon) in South Florida	U	Squamates	Dietary	ent Area	1	1	1
	2010	Predation of a tree snail <i>Drymaeus</i>		Squamaces	Dietary	011011100	_		-
		multilineatus							
		(Gastropoda:Bulimulidae) by <i>Iguana</i>							
Townsend		iguana (reptilia: Iguanidae) on Key							
et al.	2005	Biscayne, Florida	U	Squamates	Dietary	N/A			
Ct ui.	2005	Nesting behavior and egg incubation		Squamacs	Dictury	11/11			
Stroud		time of introduced brown basilisks							
and Giery	2016	(Basiliscus vittatus) in South Florida	U	Squamates	Dietary	N/A			
and Oldry	2010	(Dasinsens vinains) iii Soutii Fiorida	<u> </u>	Squamates	Dictary	Charlotte			
						Harbor			
						National			
						Estuary			
		Insights into the introduction history				•			
		and population genetic dynamics of				program, National			
Wood et		the Nile monitor (<i>Varanus niloticus</i>)			Evolution /	Fish and			
	2016		TT	C			_		1
al.	2016	in Florida	U	Squamates	Taxonomy	Wildlife	0		1

	1	T T				T	1		l
						Foundatio			
						n,			
						University			
						of			
						Tennessee			
						,			
						University			
						of Tampa			
						John			
						templeton			
		A highly conserved ontogenetic limb				Foundatio			
		allometry and its evolutionary				n,			
Feiner et		significance in the adaptive radiation			Evolution /	Wenner-			
al.	2021	of Anolis lizards	U	Squamates	Taxonomy	Gren, UF	0	1	1
ui.	2021	Do structural habitat modifications		Squamates	тихононну	NSF,	Ü		1
		associated with urbanization				University			
Battles et		influence locomotor performance and			Evolution /	of Rhode			
al.	2019	limb kinematics in Anolis lizards?	U	Cauamatas		Island	0	1	1
al.	2019	l l	U	Squamates	Taxonomy	Island	0	1	1
		Hybridization and rapid							
		differentiation after secondary				NGE			
		contact between the native green				NSF,			
		anole (Anolis carolinensis) and the				University			
Wegener		introduced green anole (Anolis			Evolution /	of Rhode	_	_	
et al.	2019	porcatus)	U	Squamates	Taxonomy	Island	0	1	1
						University			
						of			
		Does adaptive radiation of a host				Virginia,			
		lineage promote ecological diversity				American			
		of its bacterial communities? A test				Museum			
		using gut microbiota of Anolis			Evolution /	of Natural			
Ren et al.	2016	lizards	U	Squamates	Taxonomy	History	0	1	1
						University			
						of			
						Virginia,			
						Herpetolo			
		Consistent differences in sperm				gists			
		morphology and testis size between				League,			
Kahrl et		native and introduced populations of			Evolution /	American			
al.	2017	three Anolis Lizard Species	U	Squamates	Taxonomy	Museum	0	1	1
a1.	2017	unce Anons Lizaru species	U	Squamates	Taxononiy	Muscuiii	U	1	1

						of Natural			
						History			
						CUNY,			
		Constitution in the second and				′			
		Genetic variation in the green anole lizard (<i>Anolis carolinensis</i>) reveals				American Museum			
Tr. 11' 1					F -1 4:/				
Tollis and	2014	island refugia and a fragmented	* *	G .	Evolution /	of Natural	0		,
Boissinot	2014	Florida during the quaternary	U	Squamates	Taxonomy	History	0	0	1
T 1 . 1	2012	Rapid change in the thermal	* *	G .	Evolution /	Duke	0		,
Leal et al.	2012	tolerance of a tropical lizard	U	Squamates	Taxonomy	University	0	0	1
		Provenance and genetic diversity of							
		the non-native geckos <i>Phelsuma</i>				FIU,			
E' 11 1		grandis Gray 1870 and Gekko gecko			F 1 .: /	Susan			
Fieldsend	2021	(Linnaeus 1758) in Southern Florida,	**	G .	Evolution /	Levine	0		,
et al.	2021	USA	U	Squamates	Taxonomy	Trust	0	0	1
						Henry			
		Combining genetic and distributional				Luce			
		approaches to sourcing introduced				Foundatio			
D 11 4		species: a case study on the Nile			F 1 .: /	n,			
Dowell et	2016	monitor (<i>Varanus niloticus</i>) in Florida	TT	G	Evolution /	Fordham	0	0	1
al.	2016		U	Squamates	Taxonomy	University	0	0	1
G1		Fine-scale genetic structure arises			D 1 /	University			
Short and	2011	during range expansion of an	**	G .	Evolution /	of	0		,
Petren	2011	invasive gecko	U	Squamates	Taxonomy	Cincinnati	0	0	1
						ENP,			
						USGS			
						Greater			
						Everglade			
						s Priority			
						Ecosyste			
						ms Science			
						Program,			
						and USGS Invasive			
		A . 11 1 . 4							
		A validation of 11 body-condition			Evolution /	Species Science			
Follo et el	2016	indices in a giant snake species	ŢŢ	Conorates			0	1	_
Falk et al.	2016	exhibits positive allometry	U	Squamates	Taxonomy	program	0	1	0
17 . 11		Physiological variation among			F -1 4: /	Indiana			
Kolbe et	2012	invasive populations of the Brown	TT	G	Evolution /	Academy		4	
al.	2013	Anole (Anolis sagrei)	U	Squamates	Taxonomy	of	0	1	0

The evolution of jumping performance in Caribbean Anolis	Kolbe et al. 200 Kolbe et	performance in Caribbean Anolis lizards: solutions to biomechanical trade offs Multiple sources, admixture, and genetic variation in introduced Anolis lizard populations Genetic variation increases during biological invasion by a Cuban lizard Differential admixture shapes	U	Squamates	Evolution / Taxonomy Evolution /	NSF, University of Rhode Island NSF NSF, DDIG,		_	
The evolution of jumping performance in Caribbean Anolis lizards; solutions to biomechanical trade offs	Kolbe et al. 200 Kolbe et	performance in Caribbean Anolis lizards: solutions to biomechanical trade offs Multiple sources, admixture, and genetic variation in introduced Anolis lizard populations Genetic variation increases during biological invasion by a Cuban lizard Differential admixture shapes	U	Squamates	Evolution / Taxonomy Evolution /	University of Rhode Island NSF NSF, DDIG,		_	
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USDA, SFWMD,			U	Squamates	Taxonomy	NSF	0	1	0
SFWMD,		·		•		USDA,			
Zoo,									
University						/			
Louisville,									
Insights into the introduction histroy NFWF,		Insights into the introduction histrov				/			
and population genetic dynamcis of University	Wood et				Evolution /				
wood et and population genetic dynamcis of the Argentine black-and-white tegu Evolution / of University Evolution / of	al. 201		U	Squamates	Taxonomy	Tennessee	1	1	1

						, University of Tampa, Charlotte Harbor National Estuary Program		
Krysko et		The madagascar giant day gecko, Phelsuma madagascariensis grandis Gray 1870, (Sauria:Gekkonidae): a			Evolution /			
al.	2003	new established species in Florida	U	Squamates	Taxonomy	N/A		
Krysko		·		•				
and								
Abdelfatta		A key to the geckos (Sauria:			Evolution /			
h	2005	Gekkonidae) of Florida	U	Squamates	Taxonomy	N/A		
		An extreme cold event leads to						
Stroud		community-wide convergence in						
and		lower temperature tolerance in a			Evolution /			
Mothes	2020	lizard community	U	Squamates	Taxonomy	N/A		
		Changes in selection pressure can	·					
Bock et		facilitate hybridization during			Evolution /			
al.	2021	biological invasion in a cuban lizard	U	Squamates	Taxonomy	N/A		

Table S2. List of primary research categories and the number of studies within each category funded by State, Federal, and Local/Private Funding.

Primary Research Category	Sum of State Funding	Sum of Federal Grant	Sum of Local/Private Funding
Community Science and			
Outreach	1	1	2
Species Interaction / Community			
Ecology	2	12	4
Behavioral Studies	2	6	4
Reproductive Biology	3	8	4
Population Ecology	5	11	6
Movement Ecology	1	9	7
Animal Health and Disease	1	8	9
Dietary	4	14	11
Restoration / Conservation	6	23	12
Evolution / Taxonomy	2	22	17
Habitat Use / Distribution / Niche			
Modeling	3	22	18
Grand Total	30	136	94

Table S3. List of all Greater Everglades Ecosystem Restoration Conference (GEER) Presentations and Posters from 2001 to 2021.

Authors	Year	Origin	Species	Megafauna	Taxon	Type
Rice et al.	2003	Invasive	Cuban Treefrog	No	Anurans	Talk
Walls	2010	Invasive	Cuban Treefrog	No	Anurans	Poster
Casler et al.	2003	Native	All Anurans	No	Anurans	Poster
Ugarte et al.	2003	Native	Pig Frog	No	Anurans	Talk
Schuman and Bartoszek	2008	Native	All Anurans	No	Anurans	Talk
Ugarte et al.	2000	Native	Pig Frog	No	Anurans	Poster
Brandt	2010	Native	All Anurans	No	Anurans	Talk
Dixon	2010	Native	All Anurans	No	Anurans	Talk
Anderson	2015	Native	All Anurans	No	Anurans	Talk
Waddle	2015	Native	All Anurans	No	Anurans	Talk
Everham	2017	Native	All Anurans	No	Anurans	Talk
Hart et al.	2003	Native	Diamondback Terrapin	No	Chelonians	Talk
Hart	2006	Native	Diamondback Terrapin	No	Chelonians	Poster
Hart	2008	Native	Diamondback Terrapin	No	Chelonians	Talk
Darby et al.	2008	Native	Mud and Musk Turtles	No	Chelonians	Talk
Denton	2015	Native	Diamondback Terrapin	No	Chelonians	Poster

Denton	2021	Native	Diamondback Terrapin	No	Chelonians	Poster
Fujisaki	2008	Invasive	All Invasives	No	Community	Talk
Rochford and Mazzotti	2015	Invasive	All Invasives	No	Community	Talk
Claunch	2019	Invasive	All Invasives	No	Community	Poster
Jennings	2019	Invasive	All Invasives	No	Community	Talk
Rice et al.	2000	Native	All Amphibians	No	Community	Poster
Cassani and Lindblad	2003	Native	All Amphibians	No	Community	Talk
Rice et al.	2003	Native	All Amphibians	No	Community	Talk
Howell	2021	Native	All Amphibians	No	Community	Poster
Rice et al.	2003	Native/Exotic	All Herpetofauna	No	Community	Poster
Glenn	2003	Native/Exotic	All Herpetofauna	No	Community	Poster
Everham	2015	Native/Exotic	All Herpetofauna	No	Community	Poster
Searcy	2021	Native/Exotic	All Herpetofauna	No	Community	Talk
Franklin	2000	Native	American Alligator	Megafauna	Crocodilians	Poster
Palmer et al.	2000	Native	American Alligator	Megafauna	Crocodilians	Poster
Rice et al.	2000	Native	American Alligator	Megafauna	Crocodilians	Poster
Slone and Allen	2000	Native	American Alligator	Megafauna	Crocodilians	Poster
Allen	2000	Native	American Alligator	Megafauna	Crocodilians	Talk
Gross et al.	2000	Native	American Alligator	Megafauna	Crocodilians	Talk
Dalrymple et al.	2000	Native	American Alligator	Megafauna	Crocodilians	Talk
Mazzotti et al.	2000	Native	American Crocodile	Megafauna	Crocodilians	Poster

Richards	2000	Native	American Crocodile	Megafauna	Crocodilians	Talk
Mazzotti et al.	2003	Native	American Alligator	Megafauna	Crocodilians	Poster
Mazzotti et al.	2003	Native	American Alligator	Megafauna	Crocodilians	Poster
Cherkiss and Mazzotti	2003	Native	American Alligator	Megafauna	Crocodilians	Talk
Phillips	2003	Native	American Alligator	Megafauna	Crocodilians	Talk
Slone et al.	2003	Native	American Alligator	Megafauna	Crocodilians	Talk
Zweig et al.	2003	Native	American Alligator	Megafauna	Crocodilians	Talk
Chopp et al.	2003	Native	American Alligator	Megafauna	Crocodilians	Talk
Rice	2006	Native	American Alligator	Megafauna	Crocodilians	Talk
Slone	2006	Native	American Alligator	Megafauna	Crocodilians	Talk
Cherkiss	2006	Native	American Crocodile	Megafauna	Crocodilians	Poster
Lorenz	2006	Native	American Crocodile	Megafauna	Crocodilians	Talk
Ogurcak et al.	2008	Native	American Alligator	Megafauna	Crocodilians	Talk
Mazzotti et al.	2008	Native	American Alligator/Crocodile	Megafauna	Crocodilians	Talk
Miller	2008	Native	American Crocodile	Megafauna	Crocodilians	Talk
Green et al.	2008	Native	American Crocodile	Megafauna	Crocodilians	Talk
Mazzotti et al.	2008	Native	American Crocodile	Megafauna	Crocodilians	Talk
Jeffery	2010	Native	American Alligator	Megafauna	Crocodilians	Poster
Bartoszek	2010	Native	American Alligator	Megafauna	Crocodilians	Poster

Burtner	2010	Native	American Alligator	Megafauna	Crocodilians	Poster
Watling	2010	Native	American Crocodile	Megafauna	Crocodilians	Talk
Green et al.	2010	Native	American Crocodile	Megafauna	Crocodilians	Talk
Fujisaki	2015	Native	American Alligator	Megafauna	Crocodilians	Poster
Shinde	2015	Native	American Alligator	Megafauna	Crocodilians	Poster
Beauchamp	2015	Native	American Alligator	Megafauna	Crocodilians	Talk
Farris	2015	Native	American Alligator/Crocodile	Megafauna	Crocodilians	Poster
Brandt	2015	Native	American Alligator/Crocodile	Megafauna	Crocodilians	Talk
Faughman	2017	Native	American Alligator	Megafauna	Crocodilians	Poster
Nestler	2017	Native	American Alligator	Megafauna	Crocodilians	Poster
Strickland et al.	2017	Native	American Alligator	Megafauna	Crocodilians	Poster