

**SUPPLEMENTAL INFORMATION**

**A CITIZEN SCIENCE HERPETOFAUNAL INVENTORY OF PALMETTO  
ISLAND STATE PARK IN SOUTHWEST LOUISIANA, USA**

*BRAD M. GLORIOSO, PHILIP VANBERGEN, SARA PILGRIM, BEANIE VILLERMIN,  
ERIC VANBERGEN, KYLYAN COMEAUX-VILLERMIN, AND KEVIN D. WOOD*

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**TABLE S1.** Details concerning all surveys performed in a citizen science herpetofaunal inventory from 2014–2015 of Palmetto Island State Park, Vermilion Parish, Louisiana, USA. Personnel initials correspond to the authors or others acknowledged for their field assistance. Areas correspond to noted locations in Fig. 1. AT = arrival time, DT = departure time, VES = visual encounter survey, AC = artificial cover.

Sample	Date	AT	DT	VES Time (min)	Number of VES Observers	Total VES Person-Hours	Weather	Surveys Performed	Area of Park Trapped or Surveyed
1	1/26/2014	10:40	16:00	160	3	8.00	Partly Cloudy	VES, Dipnetting	RV Dump, Short trail on south side of Cypress Knee Road, Evangeline Pond, Lagoon Trail (partial), River Parking Lot
2	2/8/2014	12:10	15:30	110	4	7.33	Mostly Cloudy	VES, Dipnetting, AC	RV Dump, End of Cypress Knee Road, Lagoon Trail (partial), River Parking Lot

3	2/15/2014	12:00	19:30	190	4	12.67	Clear	VES, AC	Cypress Knee Road, RV Dump, Lagoon Trail, Cul-de-sac at Vermilion River
4	2/23/2014	11:45	14:55	188	3	9.40	Cloudy	VES	Nature Center, Evangeline Pond, Eagle Pond
5	3/2/2014	10:15	17:10	360	2	12.00	Cloudy	VES, AC	Entrance, Campground trails, Lafleur Pond, Nature Center, Cypress Knee Road, River Parking Lot
6	3/9/2014	10:15	15:15	240	3	12.00	Mostly Cloudy	VES, AC	Lafleur Pond, Eagle Pond, Nature Center, Evangeline Pond, Roadside from near Evangeline to Eagle Pond, River Parking Lot
7	3/22/2014	10:15	16:15	302	3	15.10	Cloudy	VES, Dipnetting, AC	RV Dump, Cypress Knee Road, Nature Center
8	4/4/2014	14:30	19:00	150	2	5.00	Cloudy	VES, AC	Maintenance, Roadside from Maintenance to River Parking Lot, Cypress Knee Road, Entrance

9	4/19/2014	12:45	18:15	200	4	13.33	Clear	VES, AC	Roadside from River Parking Lot to artificial cover and back, Nature Center, Evangeline Pond
10	4/25/2014	11:40	17:55	215	2	7.17	Partly Cloudy	VES, AC, Minnow Traps, Pillow Traps, Turtle Traps	Nature Center, Evangeline Pond, Roadside from River Parking Lot to artificial cover and back
11	5/10/2014	10:15	15:20	270	3	13.50	Partly Cloudy	VES, AC	Evangeline Pond, Maintenance, Roadside from Maintenance to AC, Campground trails, RV Dump, Nature Center
12	6/21/2014	18:30	21:50	170	3	8.50	Partly Cloudy	VES, AC	Entrance cover area, CKR Road cover areas, Electric cover area, Nature Center area

13	8/23/2014	16:30	19:05	140	3	7.00	Mostly Cloudy	VES, AC	Cypress Knee Road, Roadside from River Parking Lot to AC and back, Nature Center
14	9/13/2014	16:00	18:10	25	3	1.25	Cloudy	Crawfish Nets, VES	Used crawfish nets near Entrance along Lagoon Trail, Lagoon Trail
15	10/4/2014	9:40	15:10	250	2	8.33	Clear	VES, AC	Cypress Knee Road, Roadside from River Parking Lot to AC and back, Nature Center, Lafleur Pond, Campground Trail
16	12/6/2014	14:54	18:10	132	2	4.40	Partly Cloudy	VES, AC	Entrance, Nature Center, AC area between Maintenance and River Parking Lot, RV Dump
17	1/19/2015	10:00	16:00	240	4	16.00	Clear	VES, AC	Nature Center, Maintenance, AC area between Maintenance and River Parking Lot, Lafleur Pond, Eagle Pond, Entrance

18	2/6/2015	16:20	18:00	0	1	0.00	Partly Cloudy	Minnow Traps	Lagoon Trail near river, AC area between Maintenance and River Parking Lot, Cypress Knee Road, Nature Center, Lagoon Trail (partial)
19	3/21/2015	14:40	17:10	150	2	5.00	Mostly Cloudy	VES, AC	Nature Center
20	3/28/2015	14:30	16:00	70	2	2.33	Clear	VES, AC	Nature Center
21	5/16/2015	17:40	22:15	170	4	11.33	Partly Cloudy & Light Rain	VES, AC	River Parking Lot, Roadside from River Parking Lot to AC and back, Nature Center
22	6/27/2015	16:45	21:15	200	6	20.00	Partly Cloudy	VES, AC	Entrance, Lagoon Trail, Nature Center, Lafleur Pond

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**TABLE S2.** Summary of all amphibian and reptile species that were documented in a citizen science herpetofaunal inventory from 2014–2015 of Palmetto Island State Park, Vermilion Parish, Louisiana, USA. Individuals were not marked; therefore, numbers presented represent captures only. Abbreviations are VES = visual encounter survey, AC = artificial cover, PVC = polyvinyl chloride pipes in the ground and on trees, MT = minnow trap, THT = turtle hoop trap, Vocal. = unique incidents of anuran vocalizations.

Species	VES	Tin AC	Wood AC	Carpet AC	PVC	Dipnet	MT	THT	Vocal.	Total Detections
<i>Anura</i>										
<i>Acris blanchardi</i>	28								12	40
<i>Gastrophryne carolinensis</i>	18	1	1						2	22
<i>Hyla chrysoscelis</i>	14								11	25
<i>Hyla cinerea</i>	34				9				7	50
<i>Hyla squirella</i>	7				9				5	21
<i>Incilius nebulifer</i>	39	20		1					1	61
<i>Lithobates catesbeianus</i>	13						25		3	41
<i>Lithobates clamitans</i>	229	7				31	43		4	314

<i>Lithobates sphenoccephalus</i>	112		1				113
<i>Pseudacris crucifer</i>	1					2	3
Caudata							
<i>Ambystoma texanum</i>	9						9
<i>Amphiuma tridactylum</i>	1						1
<i>Notophthalmus viridescens</i>	12	1			2	13	28
Squamata (Lacertilia)							
<i>Anolis carolinensis</i>	139	1			6		146
<i>Hemidactylus turcicus</i>	11						11
<i>Plestiodon fasciatus</i>	18	6		1			25
<i>Scincella lateralis</i>	202	16	7	1			226
Squamata (Serpentes)							
<i>Agkistrodon contortrix</i>	4	2					6
<i>Agkistrodon piscivorus</i>	12						12



<i>Coluber constrictor</i>	10		10
<i>Nerodia erythrogaster</i>	9	1	10
<i>Nerodia fasciata</i>	61	2	63
<i>Nerodia rhombifer</i>	5		5
<i>Opheodrys aestivus</i>	4		4
<i>Pantherophis obsoletus</i>	2		2
<i>Storeria dekayi</i>	2	1	3
<i>Thamnophis proximus</i>	48	4	52

Testudines

<i>Chelydra serpentina</i>	2		2
<i>Kinosternon subrubrum</i>	16		16
<i>Pseudemys concinna</i>	4		4
<i>Sternotherus odoratus</i>	2		2
<i>Trachemys scripta</i>	9		10

Crocodylia

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<i>Alligator mississippiensis</i>	28							1		29
Totals	1105	62	9	3	24	33	81	2	47	1366

**TABLE S3.** A comparison by source of herpetofaunal records (excluding sea turtles) from Vermilion Parish, Louisiana, USA. A single asterisk indicates those species detected at Palmetto Island State Park prior to this 2014–2015 citizen science inventory. A double asterisk indicates those species detected subsequent to this inventory.

Species	Liner 1954	Dundee and Rossman 1989	LDWF	VertNet	This Study
			Records (Boundy 2015)	Records	
Anura					
<i>Acris blanchardi</i>	X	X	X	X	X
<i>Anaxyrus fowleri</i>	X	X	X	X	
<i>Eleutherodactylus planirostris</i>			X		
<i>Gastrophryne carolinensis</i>		X	X	X	X
<i>Hyla chrysoscelis</i>	X	X	X		X
<i>Hyla cinerea</i>	X	X	X	X	X
<i>Hyla squirella</i>	X	X	X	X	X
<i>Incilius nebulifer</i>	X	X	X	X	X
<i>Lithobates catesbeianus</i>	X	X	X	X	X
<i>Lithobates clamitans</i>	X	X	X	X	X
<i>Lithobates grylio</i>	X	X	X	X	
<i>Lithobates sphenoccephalus</i>	X	X	X	X	X
<i>Pseudacris crucifer</i>	X	X	X		X

<i>Pseudacris fouquettei</i>		X	X		
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Caudata

<i>Ambystoma texanum</i>	X	X	X		X
<i>Amphiuma tridactylum</i>	X	X	X	X	X
<i>Eurycea paludicola</i>	X	X	X		**
<i>Notophthalmus viridescens</i>	X	X	X		X
<i>Siren intermedia</i>		X	X	X	

Squamata (Lacertilia)

<i>Anolis carolinensis</i>	X	X	X	X	X
<i>Aspidoscelis sexlineata</i>			X		
<i>Hemidactylus turcicus</i>			X		X
<i>Ophisaurus attenuatus</i>		X	X	X	
<i>Plestiodon fasciatus</i>	X	X	X	X	X
<i>Plestiodon laticeps</i>				X	
<i>Scincella lateralis</i>	X	X	X	X	X

Squamata (Serpentes)

<i>Agkistrodon contortrix</i>		X	X	X	X
<i>Agkistrodon piscivorus</i>	X	X	X	X	X

<i>Coluber constrictor</i>	X	X	X	X	X
<i>Farancia abacura</i>	X	X	X	X	*
<i>Haldea striatula</i>			X	X	
<i>Heterodon platirhinos</i>	X	X	X	X	
<i>Lampropeltis holbrooki</i>	X	X	X	X	*
<i>Liodytes rigida</i>		X	X	X	**
<i>Micrurus tener</i>	X		X	X	
<i>Nerodia cyclopion</i>	X	X	X	X	
<i>Nerodia clarkii</i>		X	X	X	
<i>Nerodia erythrogaster</i>		X	X	X	X
<i>Nerodia fasciata</i>	X	X	X	X	X
<i>Nerodia rhombifer</i>	X	X	X	X	X
<i>Opheodrys aestivus</i>	X	X	X	X	X
<i>Pantherophis obsoletus</i>	X	X	X	X	X
<i>Regina grahamii</i>		X	X	X	
<i>Storeria dekayi</i>		X	X	X	X
<i>Storeria occipitomaculata</i>			X	X	**
<i>Thamnophis proximus</i>	X	X	X	X	X

Testudines

<i>Apalone spinifera</i>			X	X	
<i>Chelydra serpentina</i>	X	X	X	X	X

<i>Chrysemys dorsalis</i>		X	X	X	
<i>Deirochelys reticularia</i>		X	X	X	
<i>Kinosternon subrubrum</i>	X	X	X	X	X
<i>Macrochelys temminckii</i>			X	X	
<i>Malaclemys terrapin</i>			X	X	
<i>Pseudemys concinna</i>	X		X	X	X
<i>Sternotherus odoratus</i>	X	X	X		X
<i>Terrapene carolina</i>			X	X	
<i>Trachemys scripta</i>	X	X	X	X	X
Crocodilia					
<i>Alligator mississippiensis</i>	X	X	X	X	X

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