

Accessory Publication

Systematic revision of the western Atlantic file clams, *Lima* and *Ctenoides* (Bivalvia : Limoida : Limidae)

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Marine fileclams of family Limidae d'Orbigny, 1846 (+ Radulidae Adams & Adams), characterised by their often colourful mantle and pallial tentacles and by swimming behaviour, are commonly collected and illustrated bivalves. Based on new material from an extensive Florida Keys biodiversity survey plus museum and literature data, western Atlantic species of *Lima* Bruguière, 1797 (+ *Mantellum* Röding; *Radula* Mörch; *Limaria* Rafinesque; *Austrolima* Iredale; *Meotolima* Oyama) and *Ctenoides* Mörch, 1853 (+ *Divaricolima* Rovereto) are revised. *Lima* includes *L. marioni* Fischer, 1882 (+ *L. lata* Smith; lectotype selected), and *L. caribaea* d'Orbigny, 1842 (lectotype selected), distinguished from eastern Atlantic *L. lima* Linné and other species by shell rib number. *Ctenoides* includes *C. scaber* (Born, 1778) (+ *Ostrea glacialis* Gmelin; *L. asperula* Lamarck; *Limaria asperula* Link), *C. mitis* (Lamarck, 1807) (+ *L. tenera* Sowerby; *L. floridana* Olsson & Harbison), *C. planulatus* (Dall, 1886) (lectotype selected), *C. sanctipauli* Stuardo, 1982, and *C. miamiensis*, *C. obliquus*, and *C. vokesi*, spp. nov. Species distinctions rely mainly on shell characters, although body colour and ornamentation are confirming in some cases. Diagnostic shell characters at the genus-level are supported by new anatomical characters of the gut and tentacles. Known anatomical data for worldwide *Lima* and *Ctenoides* species are summarised within a phylogenetic context.

Accessory Table 1. Florida Keys molluscan survey stations: locality information and *Lima* and *Ctenoides* spp. collected

Station	Date	Depth (m)	Locality/habitat/gear	Co-ordinates	Species and material examined
RB-1597	26.vi.1993	10	Lost Reef, 12 mi S of Key West, spur and groove reef, scuba	25°10.2'N, 80°15.5'W	<i>C. mitis</i> (1 pair)
RB-1598	26.vi.1993	6	Western Dry Rocks, off Key West, reef and patch reef rubble, gorgonians and fire coral, scuba	24°26.6'N, 81°55.6'W	<i>L. caribaea</i> (2 RV juv, 1 LV juv)

FK-017	08.vii.1995	8.8	'The Horseshoe' reef, off Marathon, patch reef/ledges and sand patches, scuba, M/V SITE FINDER	24°39.9'N, 80°59.6'W	<i>Lima caribaea</i> (1 juv RV)
FK-047	21.ix.1996	4.6	Channel marker 50A, off Ramrod Key, rubble and patch reef, scuba	24°35.8'N, 81°27.2'W	<i>L. caribaea</i> (4 alc, 1 juv alc) <i>C. scaber</i> (5 alc [dissected])
FK-048	21.ix.1996	4.6	American Shoals, reef, scuba, R/V THE SNAIL	24°31.4'N, 81°31.3'W	<i>L. caribaea</i> (1 juv alc, 1 pair, 1 LV) <i>C. scaber</i> (2 pair, 1 LV) <i>C. mitis</i> (3 alc)
FK-069	19.iv.1997	5.5	Channel marker 50A, off Ramrod Key, rubble and patch reef, scuba, R/V FLORIDAYS	24°35.8'N, 81°27.2'W	<i>L. caribaea</i> (5 alc, 3 LV) <i>C. scaber</i> (6 alc, 3 pair, 2 LV) <i>C. mitis</i> (1 alc, 1 RV)
FK-072	20.iv.1997	9.7	Ninefoot Shoal, patch reef, scuba, R/V FLORIDAYS	24°34.1'N, 81°33.1'W	<i>L. caribaea</i> (1 LV) <i>C. mitis</i> (3 RV, 2 LV)
FK-080	22.iv.1997	12.2	NW of Marquesas Keys, due E of New Ground, 25' otter trawl, R/V BELLOWS	24°40.8'N, 82°16.0'W	<i>L. caribaea</i> (1 juv alc)
FK-089	23.iv.1997	Beach	Dry Tortugas, Garden Key, by hand	24°37.7'N, 82°52.3'W	<i>L. caribaea</i> (1 alc, 1 RV, 1 LV)
FK-091	23.iv.1997	2.5–3.0	Dry Tortugas, Garden Key, Ft. Jefferson mote, by hand and snorkeling	24°37.8'N, 82°52.4'W	<i>C. mitis</i> (1 pair)
FK-092	23.iv.1997	0–3	Dry Tortugas, Loggerhead Key, by hand and snorkeling	24°38.0'N, 82°55.3'W	<i>L. caribaea</i> (3 RV, 1 LV) <i>C. scaber</i> (2 RV)
FK-112	11.vii.1997	5.5	Channel Marker 48, off Marathon, patch reef, scuba, R/V FLORIDAYS	24°41.4'N, 81°01.5'W	<i>C. scaber</i> (1 LV) <i>C. mitis</i> (1 RV, 1 LV)
FK-115	12.vii.1997	2.7	East Washerwoman Shoal, Channel Marker 49, scuba, R/V FLORIDAYS	24°40.0'N, 81°04.3'W	<i>L. caribaea</i> (1 alc [dissected], 2 pair, 2 RV, 4 LV) <i>C. scaber</i> (1 alc, 1 juv alc) <i>C. mitis</i> (2 LV)
FK-117	14.vii.1997	4.6	bayside of Marathon, channel W of Stirrup Key, rock ledges, scuba, R/V FLORIDAYS	24°44.2'N, 81°02.9'W	<i>C. scaber</i> (1 alc [dissected]) <i>C. mitis</i> (2 alc, 5 RV, 2 LV, 1 fragment)
FK-118	18.vii.1997	4.6	bayside of Marathon, channel W of Stirrup Key, rock ledges, scuba, R/V FLORIDAYS	24°44.2'N, 81°02.9'W	<i>C. scaber</i> (1 alc [dissected]) <i>C. mitis</i> (9 alc [dissected], 1 pair, 1 V)
FK-119	20.vii.1997	7.0	off Marathon, patch reef, scuba, R/V FLORIDAYS	24°39.5'N, 81°00.9'W	<i>L. caribaea</i> (1 pair, 2 RV, 1 LV) <i>C. scaber</i> (1 pair, 1 RV)
FK-121	21.vii.1997	7.0	off Marathon, patch reef, scuba, R/V FLORIDAYS	24°39.5'N, 81°00.9'W	<i>L. caribaea</i> (1 juv alc [dissected], 2 RV, 4 LV)

FK-131	07.viii.1997	6.4	off Marathon, rubble, scuba, R/V FLORIDAYS	24°39.3'N, 81°01.3'W	<i>C. scaber</i> (1 LV) <i>C. mitis</i> (1 LV) <i>L. caribaea</i> (2 RV, 1 LV) <i>C. mitis</i> (3 V)
FK-147	20.viii.1997	0.6–6.7	Sombrero Key, spur-and-groove reef, snorkeling, R/V FLORIDAYS	24°37.5'N, 81°06.7'W	<i>L. caribaea</i> (living, observed)
FK-164	13.ix.1998	4.9	The Triangles reef, gorgonian reef, scuba, R/V FLORIDAYS	25°00.6'N, 80°27.5'W	<i>L. caribaea</i> (1 LV) <i>C. scaber</i> (1 RV, 1 LV) <i>C. mitis</i> (1 RV) <i>C. mitis</i> (1 pair, 3 LV)
FK-176	20.ix.1998	5.8	Pickles Reef, reef with sand patches, scuba with hammer/chisel and by hand, R/V FLORIDAYS	24°59.0'N, 80°25.5'W	
FK-179	28.ix.1998	Beach	Lower Matecumbe Key, oceanside, 3 days after Hurricane Georges, amidst huge <i>Thalassia</i> droves (0.5-1 m deep) washed ashore, by hand	24°51.4'N, 80°43.7'W	<i>L. caribaea</i> (1 RV)
FK-199	04.iv.1999	1.5–3.0	Mosquito Bank, off Key Largo, patch reef, snorkeling, R/V FLORIDAYS	25°04.3'N, 80°23.5'W	<i>L. caribaea</i> (1 LV)
FK-200	07.iv.1999	4.9–6.1	Molasses Reef, spur-and-groove reef, scuba, R/V FLORIDAYS	25°00.5'N, 80°22.6'W	<i>L. caribaea</i> (1 RV, 1 LV fragment) <i>C. mitis</i> (2 RV, 1 LV, 2 fragments)
FK-202	08.iv.1999	7.3	Molasses Reef, spur-and-groove reef, scuba, R/V FLORIDAYS	25°00.5'N, 80°22.6'W	<i>L. caribaea</i> (1 alc, 1 juv RV, 1 LV, 1 juv LV) <i>C. mitis</i> (2 RV, 1 LV, 2 fragments)
FK-204	10.iv.1999	0–2	tidal creek off Angelfish Creek (between N Key Largo and Palo Alto Key), mangrove roots on wall, snorkeling, R/V FLORIDAYS	25°20.3'N, 80°16.0'W	<i>L. caribaea</i> (1 LV)
FK-205	10.iv.1999	1.8–4.6	Carysfort Reef, coral rubble, sand patches, coral heads, scuba, R/V FLORIDAYS	25°13.2'N, 80°12.8'W	<i>L. caribaea</i> (1 RV) <i>C. mitis</i> (2 V, 3 fragments)
FK-206	11.iv.1999	8.5	French Reef, spur-and-groove reef, rubble, sand plains, scuba, R/V FLORIDAYS	25°02.1'N, 80°21.1'W	<i>C. mitis</i> (3 V, 1 fragment)
FK-210	13.iv.1999	Beach	Lower Matecumbe Key, oceanside, by hand	24°51.4'N, 80°43.7'W	<i>L. caribaea</i> (2 RV)
FK-229	31.vii.1999	4.6–4.9	East Turtle Shoal, coarse sand/sparse gorgonians/scattered empty shells, snorkeling, R/V FLORIDAYS	24°43.3'N, 80°55.8'W	<i>C. scaber</i> (1 V) <i>C. mitis</i> (1 RV)
FK-236	02.viii.1999	4.9	Coffins Patch, coral reef, scuba, R/V FLORIDAYS	24°41.1'N, 80°57.5'W	<i>L. caribaea</i> (1 LV) <i>C. scaber</i> (1 V)
FK-237	02.viii.1999	4.3	East Turtle Shoal, patch reef with gorgonians and sand patches, scuba, R/V FLORIDAYS	24°43.2'N, 80°55.7'W	<i>L. caribaea</i> (1 RV, 1 LV) <i>C. scaber</i> (2 V)
FK-242	04.viii.1999	3.6	East Turtle Shoal, patch reef with gorgonians and	24°43.2'N, 80°55.7'W	<i>L. caribaea</i> (1 RV)

			sand patches, scuba, R/V FLORIDAYS		<i>C. scaber</i> (2 V) <i>C. mitis</i> (3 V)
FK-244	05.viii.1999	7.0	Spanish Harbor Keys, bayside, rock wall and sand slope, scuba	24°39.3'N, 81°18.2'W	<i>C. scaber</i> (2 alc, 2 LV) <i>C. mitis</i> (4 alc, 3 pair, 7 V)
FK-249	05.viii.1999	Beach	E end of Ohio Key, oceanside, wrack line	24°40.3'N, 81°14.5'W	<i>L. caribaea</i> (1 RV)
FK-260	10.viii.1999	7.3–7.6	Looe Key reef, spur-and-groove reef, scuba, R/V FLORIDAYS	24°32.8'N, 81°24.8'W	<i>L. caribaea</i> (1 juv alc, 2 RV) <i>C. scaber</i> (2 V) <i>C. mitis</i> (2 RV, 3 LV)
FK-264	13.viii.1999	1.8	Looe Key reef, back reef, sand/ <i>Thalassia</i> /coral rubble, scuba, R/V FLORIDAYS	24°32.9'N, 81°24.4'W	<i>L. caribaea</i> (1 alc, 1 RV) <i>C. scaber</i> (1 RV) <i>C. mitis</i> (1 RV, 2 LV)
FK-268	19.viii.1999	0.6–2.4	Looe Key reef, back reef, seagrass/sand patches/rubble, snorkeling, R/V FLORIDAYS	24°32.8'N, 81°24.3'W	<i>L. caribaea</i> (2 LV)
FK-276	21.viii.1999	0.8–2.4	Looe Key reef, fore reef to rubble zone, snorkeling, R/V FLORIDAYS	24°32.9'N, 81°24.4'W	<i>L. caribaea</i> (1 LV) <i>C. scaber</i> (1 pair with dried tissue, 1 RV) <i>C. mitis</i> (2 LV)
FK-284	09.iv.2000	Beach	Lower Matecumbe Key, oceanside, wrack line	24°51.4'N, 80°43.7'W	<i>L. caribaea</i> (2 RV, 1 LV)
FK-287	10.iv.2000	Shallow subtidal	Spanish Harbor Keys, bayside, snorkeling	24°39.3'N, 81°18.2'W	<i>C. mitis</i> (2 pair, 1 V)
FK-298	02.vii.2000	9.1	Looe Key National Marine Sanctuary, SW corner, scuba, R/V EUGENIE CLARK	<i>c.</i> 24°32.5'N, 81°24.7'W	<i>C. mitis</i> (1 RV)
FK-310	04.vii.2000	7.6	Marquesas Rock, rocks, scuba and snorkeling, R/V EUGENIE CLARK	24°27.6'N, 82°12.4'W	<i>C. mitis</i> (1 V, 2 juv V)
FK-341	06.vii.2000	2.4–10.0	Western Sambo Reef, scuba and snorkeling, R/V EUGENIE CLARK	24°28.7'N, 81°43.0'W	<i>L. caribaea</i> (1 RV) <i>C. scaber</i> (1 LV) <i>C. mitis</i> (2 V)
FK-350	07.vii.2000	9.4	Looe Key reef, SW corner of core area, scuba, R/V EUGENIE CLARK	24°32.6'N, 81°24.7'W	<i>L. caribaea</i> (2 juv alc, 1 RV) <i>C. mitis</i> (3 pair, 2 RV, 3 LV, 1 fragment)
FK-351	08.vii.2000	0.9–2.1	Looe Key reef, back reef, rubble, snorkeling, R/V FLORIDAYS	24°32.9'N, 81°24.4'W	<i>L. caribaea</i> (1 alc) <i>C. mitis</i> (3 V)
FK-352	08.vii.2000	0–1.5	Spanish Harbor Keys, bayside, rubble, snorkeling	24°39.3'N, 81°18.2'W	<i>C. scaber</i> (2 V) <i>C. mitis</i> (3 V)
FK-357	09.vii.2000	2.7–3.3	American Shoals, <i>Thalassia</i> seagrass with large coral rubble, scuba, R/V FLORIDAYS	24°31.5'N, 81°31.2'W	<i>L. caribaea</i> (1 alc, 1 RV, 1 LV)
FK-358	10.vii.2000	5.5	American Shoals, reef/patch reef/gorgonians/rubble	24°31.4'N, 81°31.1'W	<i>C. scaber</i> (1 LV)

FK-359	10.vii.2000	3.3–3.6	and rocks, scuba, R/V FLORIDAYS American Shoals, <i>Thalassia/Syringodeum</i> seagrass with rubble and rocks, scuba, R/V FLORIDAYS	24°31.6'N, 81°31.1'W	<i>C. mitis</i> (5 V) <i>C. mitis</i> (1 RV)
FK-360	11.vii.2000	2.7	Coral lumps off Newfound Harbor Keys, sand/seagrass/patch reef/gorgonians, scuba, R/V FLORIDAYS	24°37.0'N, 81°23.6'W	<i>L. caribaea</i> (1 alc, 1 pair, 1 RV) <i>C. scaber</i> (1 V) <i>C. mitis</i> (1 V, 3 fragments)
FK-366	08.x.2000	7.9	Conch Reef, pavement with algae, vertical walls/outcroppings, scuba, R/V FLORIDAYS	24°57.4'N, 80°27.4'W	<i>L. caribaea</i> (2 V) <i>C. mitis</i> (8 V) <i>C. scaber</i> (2 V)
FK-389	16.x.2000	8.5	Davis Reef, colonized reef with large sand plains, scuba, R/V FLORIDAYS	24°55.3'N, 80°30.3'W	<i>C. mitis</i> (1 pair, 2 RV, 1 frag)
FK-392	20.x.2000	Beach	Lower Matecumbe Key, oceanside, wrack line, by hand	24°51.4'N, 80°43.7'W	<i>L. caribaea</i> (2 RV, 3 LV)
FK-394	27.iii.2001	16.4	Canyon reef, scuba, M/S REPUBLIC IV	24°58.1'N, 80°25.7'W	<i>L. caribaea</i> (1 LV)
FK-395	27.iii.2001	7.9	Snappers Ledge reef, scuba, M/S REPUBLIC IV	24°58.9'N, 80°25.4'W	<i>C. mitis</i> (1 RV, 1 LV, 1 fragment)
FK-396	28.iii.2001	35.0	wreck of M/S EAGLE, on sand bottom near shipwreck, scuba, M/S REPUBLIC IV	24°52.2'N, 80°34.2'W	<i>C. mitis</i> (1 LV)
FK-460	16.vii.2001	10	Snapper's Ledge, sand with rocks, scuba, M/S REPUBLIC IV	24°58.9'N, 80°25.6'W	<i>C. scaber</i> (1 living, observed)
FK-461	16.vii.2001	10	Pickles Reef, scuba, M/S REPUBLIC IV	~24°58.9'N, 80°25.5'W	<i>C. scaber</i> (several V, observed) <i>C. mitis</i> (several V, observed)
FK-462	16.vii.2001	7.6	Davis Ledge, scuba, M/S OSPREY	~24°55.3'N, 80°30.3'W	<i>C. mitis</i> (several V, observed)
FK-499	24.vii.2001	0–4.9	Sand Key, sand, rocks, patch reef, snorkeling, R/V EUGENIE CLARK	24°27.2'N, 81°52.8'W	<i>L. caribaea</i> (3 V)
FK-539	28.vii.2001	30.2–34.1	S of Bahia Honda Key, W of Looe Key reef, rubble, triangle dredge, R/V EUGENIE CLARK	24°34.2'N, 81°16.6'W	<i>C. mitis</i> (1 juv pair, 3 juv fragments)
FK-547	30.vii.2001	7.6	Looe Key reef, spur and groove reef, scuba, R/V FLORIDAYS	24°32.8'N, 81°24.2'W	<i>L. caribaea</i> (5 V) <i>C. scaber</i> (1 pair) <i>C. mitis</i> (living, observed; 19 V)
FK-559	15.iv.2002	Wrack line to 2.1	Loggerhead Key, Dry Tortugas, S shore, by hand and snorkeling, R/V CORAL REEF II	24°37.8'N, 082°55.4'W	<i>L. caribaea</i> (2 RV, 1 LV)
FK-581	16.iv.2002	Wrack line to shallow subtidal	Loggerhead Key, Dry Tortugas, N shore, by hand and snorkeling, R/V CORAL REEF II	24°37.9'N, 082°55.4'W	<i>L. caribaea</i> (2 RV, 3 LV)
FK-583	16.iv.2002	12.2	Dry Tortugas, large patch reef with surrounding sand	24°34.7'N, 82°56.7'W	<i>L. caribaea</i> (1 RV juv)

FK-601	18.iv.2002	4.9	plains, scuba, R/V CORAL REEF II Hospital Key, Dry Tortugas, patch reef, sand, scuba and snorkeling, R/V CORAL REEF II	24°39.0'N, 82°51.3'W	<i>C. mitis</i> (1 LV juv) <i>L. caribaea</i> (6 V) <i>C. scaber</i> (13 V) <i>C. mitis</i> (15 V)
FK-608	19.iv.2002	9.7	Marquesas Rock, hard bottom with gorgonians, coral heads, overhang leading into sand plain, scuba, R/V CORAL REEF II	24°27.5'N, 82°12.3'W	<i>L. caribaea</i> (4 V) <i>C. mitis</i> (1 alc, 3 V)
FK-614	19.iv.2002	8.5	Marquesas Rock, hard bottom with gorgonians, coral heads, overhang leading into sand plain, scuba (night dive), R/V CORAL REEF II	24°27.5'N, 82°12.3'W	<i>C. scaber</i> (living, observed)
FK-615	20.iv.2002	9.7	Cosgrove Shoal, rubble patch reef with sponges, gorgonians, overhangs, sand flat, scuba, R/V CORAL REEF II	24°27.5'N, 82°11.0'W	<i>L. caribaea</i> (1 pair, 1 V) <i>C. mitis</i> (6 V)
FK-624	20.vii.2002	7.3	Horseshoe Reef, off Fat Deer Key, patch reef with sandy bottom, scuba, M/V SHUTTERBUG II	24°39.9'N, 80°59.6'W	<i>L. caribaea</i> (2 alc, 2 RV, 1 LV) <i>C. scaber</i> (living, observed) <i>C. mitis</i> (3 RV)
FK-625	20.vii.2002	6.4	Coffins Patch Sanctuary Preservation Area, off Crawl Key, patch reef with sand patches, gorgonian, pillar coral, scuba, M/V SHUTTERBUG II	24°40.9'N, 80°58.3'W	<i>L. caribaea</i> (2 RV, 2 LV) <i>C. scaber</i> (1 RV) <i>C. mitis</i> (1 pair, 1 RV, 1 LV)
FK-626	21.vii.2002	To 6.1m	bayside of West Summerland Key (Spanish Harbor Keys), at center of quarry, rock wall and soft sediment, snorkeling and scuba	24°39.3'N, 81°18.2'W	<i>C. scaber</i> (3 pair, living) <i>C. mitis</i> (2 alc)
FK-629	21,26.vii.2002	0–1	bayside of West Summerland Key (Spanish Harbor Keys), among rocks along arms of quarry, by hand, snorkeling	24°39.3'N, 81°18.2'W	<i>C. scaber</i> (7 alc, 1 pair) <i>C. mitis</i> (2 alc, 1 pair, 2 RV, 1 LV)
FK-636	22.vii.2002	intertidal	Long Key State Park, oceanside, sandy beach, seagrass, by hand, snorkeling	24°48.7'N, 80°49.7'W	<i>C. mitis</i> (16 V)
FK-639	23.vii.2002	3.6–4.6	Coral Gardens inshore patch reef, oceanside off Lower Matecumbe Key, snorkeling, from Keys Marine Laboratory vessel	24°50.2'N, 80°43.8'W	<i>C. mitis</i> (1 pair)
FK-640	23.vii.2002	0.1–1.2	oceanside off Craig Key, patch reef, hardbottom, snorkeling, from Keys Marine Laboratory vessel	24°49.8'N, 80°45.7'W	<i>C. mitis</i> (1 juv alc)
FK-641	23.vii.2002	7.0	Tennessee Reef, off Long Key, hard bottom with coral, scuba, R/V FLORIDAYS	24°44.7'N, 80°46.9'W	<i>L. caribaea</i> (V observed)
FK-642	23.vii.2002	0.5–1.0	Lower Matecumbe Key, oceanside, thin sand cover on rock platform, small coral, <i>Thalassia/Halodule</i> seagrass, <i>Sargassum</i> , wading, snorkeling,	24°51.4'N, 80°43.7'W	<i>L. caribaea</i> (1 V)

FK-645	24.vii.2002	1–3	shovel/sieving Grassy Key, oceanside, at turnoff before Tom’s Harbor Channel, on underside of large, algal-encrusted boulders/rocks along shore, by hand, snorkeling	24°46.6’N, 80°55.4’W	<i>L. caribaea</i> (1 alc) <i>C. mitis</i> (living, observed)
FK-647	25.vii.2002	0.5–1.0	W side of Pigeon Key, <i>Thalassia/Halodule/Syringodeum</i> seagrass on sand/rubble, concrete bridge piers, by hand, snorkeling, shovel/sieving	24°42.2’N, 81°09.3’W	<i>L. caribaea</i> (1 RV juv)
FK-651	27.vii.2002	7.6	‘Samantha’s patch reef’ c. 5 nmi E of Marathon, coral rock interspersed with sandy channels, scuba, M/V SHUTTERBUG II	24°39.5’N, 81°00.3’W	<i>L. caribaea</i> (1 pair, 2 V) <i>C. mitis</i> (1 juv alc, 10 V)
FK-652	27.vii.2002	0–1.0	Long Key State Park, oceanside, seagrass bed (predominantly <i>Thalassia</i>) on muddy sand, wading, shovel/sieving	24°48.7’N, 80°49.7’W	<i>L. caribaea</i> (1 RV juv)
FK-656	28.vii.2002	0.6–1.2	mangrove channel off S Layton Drive, Layton, Long Key, red mangrove roots, snorkeling	24°49.4’N, 80°48.8’W	<i>C. mitis</i> (2 V)
FK-659	28.vii.2002	0.6–1.2	Pigeon Key, seagrass, scuba	24°42.2’N, 81°09.3’W	<i>L. caribaea</i> (1 juv alc)
FK-662	05.viii.2002	5.2–7.0	Sombrero Reef, 5 nmi S of Knights Key, sandy bottom immediately adjacent to coral reef; scuba, R/V FLORIDAYS	24°37.6’N, 81°06.5’W	<i>L. caribaea</i> (1 LV) <i>C. scaber</i> (1 LV) <i>C. mitis</i> (1 pair, 7 RV, 1 LV)
FK-665	07.viii.2002	5.5–7.0	Coffins Patch pillars, S of Crawl Key, coral reef and sand plains, some <i>Thalassia</i> seagrass; scuba, R/V FLORIDAYS	24°40.9’N, 80°58.2’W	<i>L. caribaea</i> (1 RV, 1 LV)
FK-666	07.viii.2002	2.4–3.9	East Washerwoman Shoal, off Key Vaca, sandy patch reef, gorgonians, rubble; scuba, R/V FLORIDAYS	24°39.9’N, 81°04.3’W	<i>L. caribaea</i> (4 LV)
FK-673	11.viii.2002	0.9–1.5	Bethel Bank, 2 nmi N of Knights Key Channel, bayside, coral rubble, <i>Thalassia</i> seagrass, strong current over shoal; snorkeling, R/V FLORIDAYS	24°43.8’N, 81°07.6’W	<i>L. caribaea</i> (1 LV)
FK-674	12.viii.2002	6.7–7.9	Sombrero Reef, spur and groove reef, rubble; scuba, R/V FLORIDAYS	24°37.5’N, 81°06.7’W	<i>L. caribaea</i> (4 RV, 6 LV) <i>C. scaber</i> (1 LV juv) <i>C. mitis</i> (2 pair, 7 RV, 6 LV)
FK-678	14.viii.2002	0.9–3.0	Bayside of West Summerland Key (Spanish Harbor Keys), inside W arm, scuba	24°39.3’N, 81°18.2’W	<i>C. scaber</i> (1 pair, 1 RV) <i>C. mitis</i> (2 pair, 5 RV, 2 LV)
FK-685	04.vi.2003	Max. 4.3	The Rocks, oceanside off Windley Key, patch reef with surrounding hard bottom covered by thin veneer of sand, many gorgonians, scuba	24°57.2’N, 80°32.9’W	<i>L. caribaea</i> (1 alc)

FK-686	04.vi.2003	Max. 2.4	The Rocks, oceanside off Windley Key, hard bottom with thin layer of sand, many gorgonians, few coral boulders, scuba	24°57.0'N, 80°33.3'W	<i>C. scaber</i> (1 LV)
FK-687	04.vi.2003	0.5–1.0	Diver's Cove boat basin, oceanside, Key Largo, seawall and nearby algae-covered rocks, snorkeling	25°02.8'N, 80°29.0'W	<i>C. mitis</i> (4 RV, 1 LV)
FK-688	05.vi.2003	Max. 8.5	Conch Reef, oceanside off Key Largo, algae-covered reef, vertical walls and adjacent sand plains, scuba	24°57.4'N, 80°29.4'W	<i>C. scaber</i> (1 RV) <i>C. mitis</i> (1 pair, 1 RV)
FK-692	08.vi.2003	Max. 6.4	Hen and Chickens patch reef, oceanside of Plantation Key, scuba	24°56.1'N, 80°32.9'W	<i>C. mitis</i> (1 pair)
FK-694	09.vi.2003	Max. 6.4	Molasses Reef, spur & groove reef, scuba	25°00.6'N, 80°22.4'W	<i>C. mitis</i> (1 alc, 2 pair, 1 RV, 1 LV)
FK-696	10.vi.2003	Max. 6.7	Sand Island (near Molasses Reef), patch reef with rubble, scuba	25°01.1'N, 80°22.0'W	<i>L. caribaea</i> (1 RV, 2 RV juv, 1 LV) <i>C. mitis</i> (1 alc, 1 RV juv, 2 LV juv)
FK-698	11.vi.2003	Max. 4.9	Wolfe mooring buoy (near Three Sisters Reef), patch reef with adjacent <i>Thalassia</i> seagrass bed, scuba	25°01.3'N, 80°23.8'W	<i>C. mitis</i> (1 living observed, 1 RV, 1 RV juv, 1 LV)
FK-699	11.vii.2003	Max. 8.8	Sand Island (near Molasses Reef), patch reef with rubble, scuba, R/V FLORIDAYS	25°01.1'N, 80°22.1'W	<i>C. mitis</i> (2 RV, 1 LV, 1 LV juv)

Additional Synonymy

Lima caribaea d'Orbigny, 1842

Lima caribaea. – Arango y Molina 1878: 267.

Lima lima (non *Ostrea lima* Linné, 1758). – Thiele 1910: 126; Clench and McLean 1936: 163; Lermond 1936: 12; McLean 1936: 40; Webb 1936: 21, text-fig.; Smith 1937: 36, pl. 10, fig. 5; Webb 1937: 13, text-fig.; Webb 1939: 7, text-fig.; Webb 1942: 59, pl. 20, fig. 2; Lyman 1948: 73; Abbott 1958: 117; Olsson and McGinty 1958: 20; Manning and Kumpf 1959: 303; Nowell-Usticke 1959: 8; Weber 1961: 59; Lewis 1965: 1069, Appendix; Menzies *et al.* 1966: 409, table 3; Work 1969: 690; Plockelman 1970a: 3; Plockelman 1970b: 12; Rios 1970: 167; Plockelman 1971: 29; McGinty and Nelson 1972: 12; Anders 1973: 63; Godcharles and Jaap 1973: 33; Waller 1973: 41, 48; Ekdale 1974: 654; Porter 1974: 46; Voss *et al.* 1983: 207, Appendix A, 315, Appendix C, 429, Appendix F; Boone 1987: 107; Turgeon *et al.* 1988: 25; Jacksonville Shell Club 2001: 1; ITIS 2003a.

Lima (Lima) lima (non *Ostrea lima* Linné, 1758). – Aguayo and Jaume 1948: 1; Andrews 1971: 168-169, text-fig. (left); Rios 1975: 209-210, pl. 67, fig. 1012; Andrews 1977: 206, fig.; Rios 1985: 226, pl. 81, fig. 1134.

[unlabelled]. – Edwards 1974: 70, text-fig.

Ctenoides scaber (Born, 1778)

Ostrea scabra. – Wood 1818: 51.

Lima scabra. – Stimpson 1860: 443 (indicated as of uncertain identification); Coues 1871: 131; Arango y Molina 1878: 267; Melvill 1880: 172; Thiele 1910: 126; Lermond 1936: 12; Mclean 1936: 40; Webb 1936: 21, text-fig.; Smith 1937: 36, pl. 10, fig. 1; Webb 1937: 13, text-fig.; Webb 1939: 7, text-fig.; Webb 1942: 59, pl. 20, fig. 4; Webb 1945: 29, pl. 12, fig. 4; Moore 1958: 154; Olsson and McGinty 1958: 20; Nowell-Usticke 1959: 8; Weber 1961: 59; Read 1967: 233 ff.; Plockelman 1969b: 11; Ross 1969: 9; Work 1969: 690; Porter 1971: 32; McGinty and Nelson 1972: 12; Anders 1973: 61; Zischke 1973: 36; Ekdale 1974: 654; Porter 1974: 46; Britton 1976: 36; Lin and Pompa 1977: 83 ff.; Zischke 1977a: 29; Zischke 1977b: 345, no. 63; Ring 1980: 131; Hall 1981: 27; Porter and Safrit 1981: 128; Boone 1987: 107; Ruppert and Fox 1988: 139-140; Turgeon *et al.* 1988: 26; ITIS 2003b.

L. scabra “Dillwyn.” – Rogers 1908: 410, fig. 4.

Lima (Ctenoides) scabra. – Clench and McLean 1936: 163; Aguayo and Jaume 1948: 1; Abbott 1959: 117; Rios 1970: 168; Rios 1975: 210, pl. 67, fig. 1013; Rios 1985: 226, pl. 81, fig. 1135.

Ctenoides mitis (Lamarck, 1818)

Lima tenera ‘Chemnitz’ Sowerby, 1843 (non *Lima tenera* Turton, 1825). – Lermond 1936: 12; Webb 1936: 21 (accompanied by poor text-fig., apparently of a *Lima* sp.); Smith 1937: 36, pl. 10, fig. 14; Webb 1937: 13, text-fig. (accompanied by poor text-fig., apparently of a *Lima* sp.); Webb 1942: 62, pl. 21, fig. 20; Webb 1945: 31, pl. 13, fig. 20; Parker and Curray 1956: 2433; Olsson and McGinty 1958: 20; Nowell-Usticke 1959: 8; Weber 1961: 59; Menzies *et al.* 1966: 409, table 3; McGinty and Nelson 1972: 12.

Lima (Ctenoides) tenera. – Clench and McLean 1936: 163; Aguayo and Jaume 1948: 1.

Lima scabra var./forma/spp. *tenera*. – Brooks 1968: 8; Porter and Jenner 1968: 23; Plockelman 1969a: 12; Ross 1969: 9; Work 1969: 690-691; Woods 1970: 1; Ross 1971: 15; Porter 1974: 46.

Lima (Ctenoides) scabra var./forma/spp. *tenera*. – Abbott 1958: 117; Rios 1985: 226.

Lima floridana Olsson & Harbison, 1953. – Turgeon *et al.* 1998: 29.

Flame scallop. – Schroeder 1964: 151, text-fig.; Senie 2000.

Accessory Table 2. Distribution records from museum collections and the literature for *Lima caribaea* and *L. marioni*

* = Locality not verified by specimen examination; N/R = not recorded

Location	<i>Lima caribaea</i>	<i>Lima marioni</i>
Bermuda	AMNH, DMNH, FMNH, USNM; Smith 1885; Peile 1926; Waller 1973; Abbott 1974; Andrews 1977, 1994; Hemmen and Hemmen 1979; Eisenberg 1981; Rios 1985, 1994; Jensen and Harasewych 1986; Oliver 1987; Diaz Merlano and Puyana Hegedus 1994; Abbott and Morris 1995	N/R
North Carolina	USNM; Menzies <i>et al.</i> 1966 [as ?]; Porter 1974; Rios 1975, 1985, 1994; Hemmen and Hemmen 1979; Diaz Merlano and Puyana Hegedus 1994	N/R
South Carolina	AMNH	N/R

South-eastern Florida	Abbott 1954, 1974, 1984, 1986; Godcharles and Jaap 1973; Humfrey 1975; Emerson and Jacobson 1976; Andrews 1977, 1994; Eisenberg 1981; Rehder 1981; Lawson 1993) [including St. Lucie County (HBOM), Palm Beach County (BMSM, UMML; Kennedy 1969; Work 1969; Plockelman 1971; Godcharles and Jaap 1973; Jacksonville Shell Club 2001), Broward County (AMNH, HMNS, ex Chadwick; McGinty and Nelson 1972; Godcharles and Jaap 1973), Miami (AMNH, FMNH, UMML; ex Chadwick; Work 1969; Plockelman 1970b; Stanley 1970)	N/R
Florida Keys	AMNH, ANSP, BMSM, CMNH, DMNH, FMNH, HBOM, HMNS, SBMNH, USNM; ex Chadwick, this study; Calkins 1878; Simpson 1887-1889; Dall 1896; Thiele 1910; Lermond 1936; Lyman 1948; Brooks, 1968a; Work 1969; Godcharles and Jaap 1973; Voss <i>et al.</i> 1983; Williams 1988; Lyons and Quinn 1995; Mikkelsen and Bieler 2000	N/R
Western Florida	SW Florida (Godcharles and Jaap 1973), Sanibel Island (FMNH), *Sarasota (Dall 1889, 1898), Cape San Blas (HMNS)	N/R
Texas	FMNH, HMNS; Rios 1975, 1985, 1994; Emerson and Jacobson 1976; Andrews 1971, 1977, 1994; Odé 1979; Hemmen and Hemmen 1979; Eisenberg 1981	N/R
Mexico	DMNH, UMML; Dall 1886; Maury 1920; Jaume 1946; Rice and Kornicker 1962; Ekdale 1974; Parodiz 1976; Andrews 1977, 1994; Vokes and Vokes 1984; Odé 1988; INBio 2001	*Yucatan (Stuardo 1968), Cuba
Belize	USNM; Anders 1973; Boone 1987	N/R
Honduras	UMML, USNM	N/R
Nicaragua	UMML	N/R
Costa Rica	*INBio 2001; Espinosa and Ortea 2001	N/R
Panama	UMML, ex Lloyd; Olsson and McGinty 1958	N/R
Bahamas	AMNH, FMNH, UMML, USNM, ex Hewitt; Clench and McLean 1936; Work 1969; Humann 1992; Lawson 1993; Redfern 2001; Humann and DeLoach 2002	N/R
Turks and Caicos	HMNS, UMML, ex Chadwick	N/R

Caribbean (general)	Johnson 1934; Abbott 1954, 1974, 1986; Rios 1970, 1975, 1985, 1994; Morris 1973; Humfrey 1975; Emerson and Jacobson 1976; Andrews 1977, 1994; Hemmen and Hemmen 1979; Eisenberg 1981; Humann 1992; Abbott and Morris 1995; Humann and DeLoach 2002	N/R
Cuba	FMNH, MTD (K. Schniebs, pers. comm.), UMML, USNM; d'Orbigny 1846, 1853; Arango y Molina 1878; Dall 1886; McLean 1936; Aguayo and Jaume 1948a; Espinosa <i>et al.</i> 1994	Aguayo and Jaume 1948a
Cayman Islands	ANSP, FMNH; Abbott 1958	N/R
Jamaica	UMML, USNM; Cockerell 1894; Humfrey 1975	N/R
Hispaniola	AMNH, UMML; Edwards 1974	N/R
Puerto Rico	AMNH; ex Hewitt [Culebra]; Dall and Simpson 1901; McLean 1951; Warmke and Abbott 1961	N/R
Virgin Islands	FMNH, UMML, USNM; ex Chadwick, ex Hewitt; McLean 1951; Nowell-Usticke 1959; Weber 1961	N/R
Antigua	UMML	N/R
Guadeloupe	ANSP, UMML; Beau in Petit de la Saussaye 1853; Schramm 1869; Arango y Molina 1978; Pointier and Lamy 1998	N/R
Martinique	UMML; Dall 1886	N/R
St. Vincent	UMML	N/R
Grenadines	AMNH; Hemmen and Hemmen 1979	N/R
Barbados	USNM; Dall 1886, 1889; Smith 1937, 1945; Lewis 1965; Sander and Lalli 1982; Fondas 2002	N/R
Grenada	UMML	N/R
Trinidad and Tobago	AMNH	N/R
Colombia	FMNH; Diaz Merlano and Puyana Hegedus 1994	N/R
Venezuela	*Work 1969; Rios 1985, 1994	N/R
Netherlands Antilles	AMNH, UMML	N/R
Brazil	USNM; Dall 1898; Maury 1920; Work 1969; Rios 1970, 1975, 1985, 1994; Abbott 1974, 1984; Andrews 1977, 1994; Hemmen and Hemmen 1979; Eisenberg 1981; Rehder 1981; Lawson 1993; Diaz Merlano and Puyana Hegedus 1994	northeastern Brazil (USNM; Smith 1885; Locard 1898; Thiele 1918; Aguayo and Jaume 1948a; Rios 1975; Stuardo 1968),
Eastern Atlantic	N/R	Portugal and the Azores (MNHN; Fischer 1882; Dautzenberg and Fischer, 1897; Locard 1898; Thiele 1918; Dautzenberg

1927; Aguayo and Jaume 1948a; Stuardo 1968), *France (Locard 1898; Thiele 1918; Glémarec 1978; Poppe and Goto 1993), *Spain (Oliver 1987; Rolán *et al.* 1989; Martínez *et al.* 1993), *Morocco (Locard 1898; Poppe and Goto 1993); *Sudan [western Africa] (Locard 1898; Thiele 1918; Stuardo 1968)

Accessory Table 3. Distribution records from museum collections and the literature for *Ctenoides scaber* and *C. mitis*

* = Locality not verified by specimen examination; N/R = not recorded

Location	<i>Ctenoides scaber</i>	<i>Ctenoides mitis</i>
Bermuda	N/R	AMNH
North Carolina	NCSM; Stimpson 1860; Coues 1871; Dall 1889, 1898; Johnson 1934; Webb 1936, 1937, 1945; Smith 1937, 1945; Aguayo and Jaume 1948b; Porter and Jenner 1968; Stuardo 1968; Porter 1971, 1974; Rios 1975, 1985, 1994; Emerson and Jacobson 1976; Porter and Safrit 1981; Kaplan 1988; Ruppert and Fox 1988; Diaz Merlano and Puyana Hegedus 1994; Porter and Houser 1998	NCSM; Menzies <i>et al.</i> 1966; Porter 1974; Porter and Jenner 1968
South Carolina	USNM; Abbott 1974, 1986; Hemmen and Hemmen 1979; Eisenberg 1981; Rehder 1981; Rosenberg 1992; Lawson 1993; Abbott and Morris 1995	*Merrill and Petit 1969
North-eastern Florida	Lee 2002; Duval County (Lloyd Collection)	N/R
South-eastern Florida	Palm Beach County (AMNH, DMNH, UMML; Plockelman 1969; Work 1969), Broward County (HMNS; McGinty and Nelson 1972; Work 1969), Dade County (AMNH, FMNH, UMML, USNM; Stuardo 1968; Work 1969; Stanley 1970; Emerson and Jacobson 1976)	Martin County (FMNH), Palm Beach County (AMNH; Work 1969), Broward County (HMNS; McGinty and Nelson 1972; Work 1969), Dade County (AMNH, FMNH, UMML; Stuardo 1968; Work 1969; Stanley 1970)
Florida Keys	AMNH, ANSP, BMSM, CMNH, DMNH, FMNH, HBOM, HMNS, SBMNH, UMML, USNM; this study; Calkins 1878; Melvill 1880; Simpson 1887-1889; Dall 1889; Thiele 1910; Lermond 1936; Bartsch 1937; Lyman 1944; Ross 1969; Work 1969; Mpitsos 1973; Zischke 1973, 1977a; Ring 1980; Sage 1987; Gilmour 1990; Lyons and Quinn 1995; Ripple 1995; Mikkelsen and Bieler 2000	AMNH, ANSP, BMSM, CMNH, FMNH, HBOM, HMNS, SBMNH, UMML, USNM; this study; Simpson 1887-1889; Lermond, 1936; Work 1969; Schroeder 1964; Brooks 1968b; Plockelman 1969a; Ross 1969, 1971; Woods 1970, 1971; Mpitsos 1973; Williams 1988; Lyons and Quinn 1995; Mikkelsen and Bieler 2000

Western Florida	Sanibel Island (AMNH), Tarpon Springs (Pulley 1952), Apalachee Bay (FMNH)	*Tampa Bay (Simpson 1887-1889); Clearwater (USNM), *Cedar Keys (Dall 1898; Maury 1920) *Shelton 1997
Alabama	N/R	
Louisiana	N/R	HMNS; Garcia and Lee 2002
Texas	ANSP; Abbott 1974; Emerson and Jacobson 1976; Hemmen and Hemmen 1979; Eisenberg 1981	ANSP, HMNS; Pulley 1952; Parker and Curray 1956; Kennedy 1959; Parker 1960; Odé and Speers 1965; Lipka 1974; Odé 1979
Mexico	HMNS, USNM; Jaume 1946; Moore 1958; Rice and Kornicker 1962; Ekdale 1974; Parodiz, 1976; Vokes and Vokes 1984	HMNS, UMML, USNM; Pulley 1952; Vokes and Vokes 1984
Belize	HBOM, HMNS, USNM; Boone 1987	USNM
Honduras	HMNS, UMML; Britton 1976; Gordon 1990	HMNS, UMML, Lloyd Collection
Costa Rica	*Houbrick 1968; INBio 2001; Espinosa and Ortea 2001	*INBio 2001; Espinosa and Ortea 2001
Panama	UMML, Lloyd Collection; Olsson and McGinty 1958	Lloyd Collection; Olsson and McGinty 1958
Bahamas	AMNH, BMSM, DMNH, FMNH, HBOM, UMML; Arango y Molina 1878; Clench and McLean 1936; Work 1969; Zeiller 1974; Lawson 1993; Redfern 2001; <i>Invertebrate Biology</i> 2002 [cover of 121(4)]	AMNH, BMSM, DMNH, FMNH, HBOM, FMNH, UMML, USNM, Hewitt Collection; Clench and McLean 1936; Aguayo and Jaume 1948b; Stuardo 1968; Work 1969; Zeiller 1974; Redfern 2001
Cuba	USNM; Arango y Molina 1878; McLean 1936; Jaume and Perez Farfante 1942 [Pleistocene]; Aguayo and Jaume 1948b; Espinosa <i>et al.</i> 1994	UMML, USNM; Dall 1886; Jaume and Perez Farfante 1942 [Pleistocene]; Aguayo and Jaume 1948b; Espinosa <i>et al.</i> 1994
Cayman Islands	AMNH, FMNH; Abbott 1958	AMNH, FMNH; Abbott 1958; Senie 2000
Jamaica	AMNH, UMML; Cockerell 1894	AMNH, UMML
Hispaniola	AMNH, MTD (K. Schniebs, pers. comm.), UMML; Dillwyn 1817	AMNH, UMML, USNM; Dillwyn 1817
Puerto Rico	AMNH, BMSM, FMNH; ex Hewitt [Culebra]; Dall and Simpson 1901; McLean 1951; Warmke and Abbott 1961; Arnou <i>et al.</i> 1963; Read 1967; Stanley 1970	AMNH; ex Hewitt [Culebra]; Dall and Simpson 1901; McLean 1951; Warmke and Abbott 1961; Arnou <i>et al.</i> 1963; Stanley 1970
Virgin Islands	AMNH, FMNH, HBOM, UMML; McLean 1951; Nowell- Usticke 1959; Weber 1961; Hewitt collection	AMNH, FMNH, UMML, USNM; McLean 1951; Dillwyn 1918; Nowell-Usticke 1959; Stuardo 1968; Weber 1961; Fenner 2002; Hewitt collection
Anguilla	AMNH	AMNH, UMML
Guadeloupe	UMML; Beau in Petit de la Saussaye 1853; Schramm 1869; Arango y Molina 1878; Pointier and Lamy 1998	*Beau in Petit de la Saussaye 1853; Schramm 1969; Pointier and Lamy 1998
Dominica	N/R	FMNH
Martinique	Arango y Molina 1878	AMNH, UMML
St. Lucia	Arango y Molina 1878	N/R

St. Vincent	N/R	UMML
Grenadines	HBOM, FMNH	AMNH, HBOM, FMNH
Barbados	*Dillwyn 1817; Sander and Lalli 1982	ANSP, USNM; Dall 1886, 1889, 1898; Maury 1920
Grenada	Hewitt Collection; Hemmen and Hemmen 1979	FMNH; Hemmen and Hemmen 1979
Trinidad and Tobago	AMNH; Dall 1889, 1898; Smith 1937, 1945	*Stuardo 1968; Work 1969
Colombia	FMNH; Diaz Merlano and Puyana Hegedus 1994	AMNH, UMML, USNM; Diaz Merlano and Puyana Hegedus 1994
Venezuela	AMNH, FMNH, HMNS, UMML; Work 1969; Lin and Pompa 1977; Rios 1985, 1994; Gómez <i>et al.</i> 1995; Lodeiros and Himmelman 1999	HMNS, UMML, USNM; Work 1969
Netherlands Antilles	AMNH, FMNH, UMML	AMNH, FMNH, Anderson Collection; Dillwyn 1817
Brazil	*Rios 1970, 1975, 1985, 1994; Abbott 1974; Hemmen and Hemmen 1979; Eisenberg 1981; Rehder 1981; Kaplan 1988; Rosenberg 1992; Lawson 1993; Diaz Merlano and Puyana Hegedus 1994; Abbott and Morris 1995	N/R

Accessory Table 4. Distribution records from museum collections and the literature for *Ctenoides planulatus* and *C. sanctipauli*

* = Locality not verified by specimen examination; N/R = not recorded

Location	<i>Ctenoides planulatus</i>	<i>Ctenoides sanctipauli</i>
South Carolina	N/R	USNM
southeastern Florida	USNM; Mikkelsen and Bieler 1998	N/R
Florida Keys	USNM; Mikkelsen and Bieler 2000	AMNH, BMSM, FMNH, MCZ, USNM; Stuardo 1982; Mikkelsen and Bieler 2000
Western Florida	N/R	AMNH
Honduras	UMML	N/R
Nicaragua	N/R	USNM
Bahamas	UMML	N/R
Cuba	N/R	*Stuardo 1968, 1982
St. Lucia	N/R	UMML
St. Vincent	UMML	N/R
Barbados	MCZ, USNM; Dall 1886; Stuardo 1968; Mikkelsen and Bieler 1998	N/R
Colombia	UMML	N/R
Netherlands Antilles	N/R	USNM

Brazil

N/R

MCZ; Stuardo 1968, 1982

Accessory Table 5. Sources of distribution records from museum collections and the literature for *Ctenoides miamiensis*, *C. sanctipauli* and *C. vokesi*

* = Locality not verified by specimen examination; N/R = not recorded

	<i>Ctenoides miamiensis</i>	<i>C. obliquus</i>	<i>C. vokesi</i>
South-eastern Florida	FMNH	FMNH, USNM	USNM
Florida Keys	UMML	N/R	N/R
North-eastern Gulf of Mexico	N/R	USNM	N/R
Mexico	N/R	UMML	N/R
Nicaragua	N/R	USNM	N/R
Panama	N/R	UMML, USNM	N/R
Bahamas	N/R	AMNH, ANSP, UMML, USNM	AMNH, UMML, USNM
Turks & Caicos	N/R	UMML	N/R
Cuba	N/R	MCZ, UMML, USNM; Stuardo 1968	N/R
Hispaniola	USNM	UMML	N/R
Puerto Rico	N/R	USNM	N/R
Anguilla	N/R	UMML	N/R
Antigua	N/R	N/R	USNM
Guadeloupe	N/R	UMML	N/R
Dominica	N/R	UMML	N/R
Martinique	N/R	UMML	N/R
St. Lucia	N/R	UMML	N/R
St. Vincent	N/R	UMML	N/R
Barbados	N/R	HBOM, USNM	USNM
Grenada	N/R	UMML	N/R
Colombia	N/R	UMML	N/R
Venezuela	N/R	UMML, USNM	N/R
Netherlands Antilles	N/R	UMML, USNM	N/R
Guyana	N/R	USNM; Stuardo 1968	N/R
Brazil	N/R	northern (USNM; Stuardo 1968); *mid-eastern (Stuardo 1968)	N/R

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