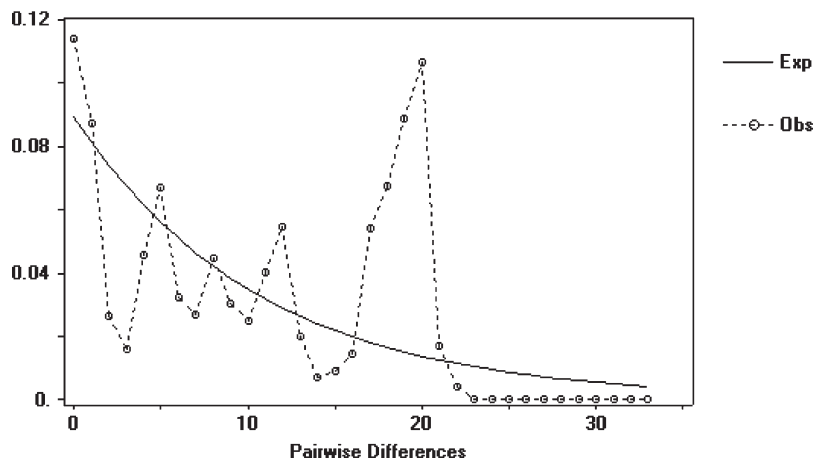
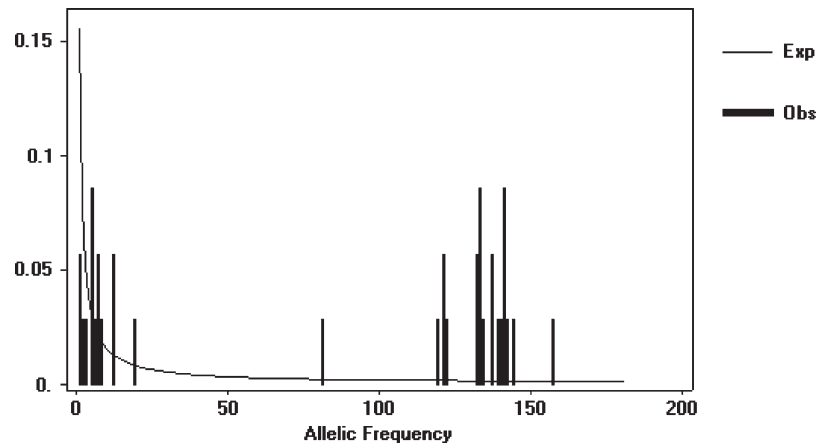


SUPPLEMENTAL FIGURE 1. Relationship between identified partial *ND4* and *ND5* haplotypes from cemeteries in south Florida (empty circles = missing haplotypes; rectangle = ancestral haplotype). Figure generated using TCS software.



SUPPLEMENTAL FIGURE 2. Frequency spectrum of observed mismatch pairwise differences of 362 *Ae. aegypti* individuals from south Florida (y axis = frequency).



SUPPLEMENTAL FIGURE 3. Frequency spectrum of observed numbers of segregating sites in the 760-bp sequence of partial *ND4* and *ND5* mitochondrial DNA sequences amplified in 362 *Ae. aegypti* individuals from south Florida (y axis = frequency).

SUPPLEMENTAL TABLE 1
Aedes aegypti collection cemeteries in south Florida

Coast	City	Cemetery	Latitude, Longitude	# Of vases collected per cemetery (# positive for <i>Ae. aegypti</i>)	# <i>Ae. aegypti</i> amplified per cemetery (# vases amplified <i>Ae. aegypti</i> came from/total # of mosquitoes collected per cemetery)	
West Coast	Tampa	Lake Carroll	28.0599N, 82.4834W	14 (5)	6 (5/15)	
		Marti Cemetery	27.9656N, 82.4946W	14 (13)	10 (5/136)	
		North 25th Cemetery	27.9812N, 82.4344W	13 (7)	10 (5/115)	
		Rose Hill Cemetery	27.9868N, 82.4079W	20 (12)	10 (5/46)	
		Shady Grove Cemetery	28.0013N, 82.3741W	15 (6)	9 (5/45)	
		Woodlawn Memorial	27.9761N, 82.4663W	27 (19)	9 (5/81)	
		Oak lawn Memorial	27.9528N, 82.4544W	11 (4)	4 (4/13)	
	St. Petersburg	Largo Cemetery	27.9333N, 82.7981W	12 (12)	12 (12/91)	
		Calvary Catholic	27.8813N, 82.7118W	13 (3)	3 (3/6)	
		Lakeview Cemetery	27.9506N, 82.7955W	14 (14)	14 (14/178)	
		Northern Memorial	27.8234N, 82.7036W	19 (17)	17 (17/125)	
		Royal Palm Memorial	27.7690N, 82.7116W	16 (15)	12 (12/125)	
		Sunnyside Cemetery	27.8209N, 82.5662W	17 (17)	17 (17/179)	
		City of Palmetto	27.5210N, 82.5809W	9 (9)	8 (8/214)	
	Palmetto	Fogartyville Cemetery	27.5026N, 82.6036W	15 (15)	14 (14/270)	
		Mansion Memorial	27.5263N, 82.5264W	11 (10)	9 (9/78)	
		Skyview Memorial	27.5642N, 82.5632W	12 (2)	1 (2/3)	
		Old Sarasota Cemetery	27.3655N, 82.5302W	11 (8)	7 (7/53)	
		Ft. Myers	American Legion	26.3306N, 82.0966W	11 (9)	9 (9/110)
			City of Ft. Myers	26.6517N, 81.8500W	22 (15)	14 (15/216)
Ft. Myers Memorial			26.5996N, 81.8844W	5 (4)	3 (4/33)	
East Coast	Jensen Beach	Oak lawn Memorial	26.645N, 81.9982W	3 (2)	3 (2/62)	
		Lake Trammel	26.4372N, 81.4682W	12 (1)	1 (1/1)	
		All Saints	27.2315N, 80.2199W	12 (10)	7 (10/137)	
	West Palm Beach	Riverside Memorial	26.9722N, 80.1070W	7 (100)	7 (7/95)	
		Fern Hill Memorial	27.1862N, 80.2519W	15 (7)	6 (7/137)	
	Ft. Lauderdale	Darsey Earl Smith	26.6319N, 80.1081W	5 (5)	5 (5/72)	
		Palm Beach Gardens	26.5679N, 80.0671W	2 (2)	2 (2/5)	
		Pine Crest Lake Worth	26.6042N, 80.0669W	7 (7)	5 (7/154)	
		Royal Palm Memorial	26.7613N, 80.0648W	17 (11)	11 (11/132)	
		Woodlawn Memorial	26.4660N, 80.1114W	5 (4)	4 (4/39)	
	Ft. Lauderdale	Evergreen Cemetery	26.7367N, 80.0837W	2 (2)	2 (2/3)	
		Dania Beach	26.0386N, 80.1480W	3 (3)	3 (3/55)	
		Evergreen	26.0104N, 80.1215W	13 (13)	11 (13/544)	
Forest Lawn North		26.2591N, 80.1258W	12 (12)	12 (12/136)		
Hollywood Memorial		26.0245N, 80.2155W	10 (10)	8 (10/153)		
Queen of Peace		26.2086N, 80.2005W	9 (3)	3 (3/44)		
Pompano Beach		26.2273N, 80.0990W	2 (2)	2 (2/7)		
West View Community		26.2598N, 80.1497W	12 (3)	2 (3/3)		

(continued)

SUPPLEMENTAL TABLE 1
Continued

Coast	City	Cemetery	Latitude, Longitude	# Of vases collected per cemetery (# positive for <i>Ae. aegypti</i>)	# <i>Ae. aegypti</i> amplified per cemetery (# vases amplified <i>Ae. aegypti</i> came from/total # of mosquitoes collected per cemetery)
	Miami	Biscayne Garden	25.7937N, 80.1941W	8 (8)	10 (5/291)
		Coconut Grove	25.7254N, 80.2532W	11 (11)	10 (5/1598)
		Dade Memorial	25.9035N, 80.2231W	25 (17)	10 (5/126)
		Lincoln Memorial	25.8179N, 80.4130W	11 (10)	10 (5/277)
		Southern Memorial	25.9195N, 80.1664W	20 (13)	10 (5/138)
		Woodlawn Memorial	25.7647N, 80.2503W	11 (11)	10 (5/286)
	Key West	Key West Cemetery	25.03295N, 80.4755W	10 (10)	10 (10/39)

SUPPLEMENTAL TABLE 2
Presence-absence matrix of identified *Aedes aegypti* partial *ND4* and *ND5* haplotypes from South Florida

Haplotypes	Cities								
	Tampa	St. Petersburg	Palmetto	Ft. Myers	Miami	Ft. Lauderdale	West Palm Beach	Jensen Beach	Key West
AEF1	1	0	0	0	0	0	0	0	0
AEF2	1	0	0	0	0	0	0	0	0
AEF3	1	0	0	0	0	0	0	0	0
AEF4	1	1	1	1	1	1	1	1	0
AEF5	1	0	0	0	0	0	0	0	0
AEF6	1	1	1	1	1	1	1	1	1
AEF7	1	1	0	0	0	1	0	0	0
AEF8	1	0	0	0	0	0	0	1	0
AEF9	1	0	0	0	0	0	0	0	0
AEF10	1	1	1	1	1	1	0	1	0
AEF11	1	0	0	0	0	0	0	0	0
AEF12	1	0	0	0	0	0	0	0	0
AEF13	1	0	0	0	0	0	0	0	0
AEF14	1	1	1	1	0	1	1	1	1
AEF15	1	0	0	0	0	0	0	0	0
AEF16	1	1	0	0	0	0	0	0	0
AEF17	1	1	0	0	0	0	1	0	0
AEF18	1	0	0	0	0	0	0	0	0
AEF19	1	0	0	0	0	0	0	0	0
AEF20	0	0	1	0	0	0	0	0	0
AEF21	0	0	1	1	0	1	1	0	0
AEF22	0	0	1	0	1	0	0	0	0
AEF23	0	1	1	0	1	0	0	0	0
AEF24	0	1	1	0	0	1	0	0	0
AEF25	0	0	1	0	0	0	0	0	0
AEF26	0	0	1	0	0	1	0	0	0
AEF27	0	0	1	0	0	0	0	0	0
AEF28	0	0	1	0	0	0	0	0	0
AEF29	0	0	1	1	0	1	1	0	0
AEF30	0	0	1	0	0	0	0	1	0
AEF31	0	1	0	0	1	1	1	1	0
AEF32	0	1	0	0	0	0	0	0	0
AEF33	0	1	0	0	0	0	1	0	0
AEF34	0	1	0	0	0	0	0	0	0
AEF35	0	1	0	0	0	0	0	0	0
AEF36	0	1	0	0	0	1	0	0	0
AEF37	0	1	0	0	0	1	0	0	0
AEF38	0	1	0	0	0	0	0	0	0
AEF39	0	1	0	0	0	0	0	0	0
AEF40	0	0	0	1	0	0	0	0	0
AEF41	0	0	0	1	0	0	0	0	0
AEF42	0	0	0	0	1	0	0	0	0
AEF43	0	0	0	0	1	0	1	0	0
AEF44	0	0	0	0	1	0	0	0	0
AEF45	0	0	0	0	1	0	0	0	0
AEF46	0	0	0	0	1	0	0	0	0
AEF47	0	0	0	0	1	0	0	0	0
AEF48	0	0	0	0	1	0	0	0	0
AEF49	0	0	0	0	1	0	0	0	0
AEF50	0	0	0	0	1	0	0	0	0

(continued)

SUPPLEMENTAL TABLE 2

Continued

Haplotypes	Cities								
	Tampa	St. Petersburg	Palmetto	Ft. Myers	Miami	Ft. Lauderdale	West Palm Beach	Jensen Beach	Key West
AEF51	0	0	0	0	1	0	0	0	0
AEF52	0	0	0	0	0	1	0	0	0
AEF53	0	0	0	0	0	1	0	0	0
AEF54	0	0	0	0	0	1	0	0	0
AEF55	0	0	0	0	0	1	0	0	0
AEF56	0	0	0	0	0	1	0	0	0
AEF57	0	0	0	0	0	1	0	0	0
AEF58	0	0	0	0	0	1	0	0	0
AEF59	0	0	0	0	0	1	0	0	0
AEF60	0	0	0	0	0	0	1	0	0
AEF61	0	0	0	0	0	0	1	0	0
AEF62	0	0	0	0	0	0	1	0	0
AEF63	0	0	0	0	0	0	1	0	0
AEF64	0	0	0	0	0	0	1	0	0
AEF65	0	0	0	0	0	0	0	1	0
AEF66	0	0	0	0	0	0	0	1	0
AEF67	0	0	0	0	0	0	0	1	0
AEF68	0	0	0	0	0	0	0	1	0
Total	19	18	15	8	16	20	14	11	2

SUPPLEMENTAL TABLE 3

Summary statistics of partial *ND4* and *ND5* mitochondrial DNA fragments across cemeteries in South Florida

City (# of individuals)	# Of haplotypes (# of segregating sites)	Haplotype diversity (<i>Hd</i>)	Nucleotide diversity (π)	# Of nucleotide differences (<i>k</i>)
West Coast				
Tampa (59)	19 (29)	0.81590	0.01417	10.77031
St. Petersburg (75)	18 (27)	0.86775	0.01303	9.90559
Palmetto (39)	15 (28)	0.89474	0.01410	10.71795
Ft. Myers (30)	8 (22)	0.84114	0.01289	9.8000
West Coast total (203)	41 (33)	0.870	0.01362	10.348
East Coast				
Miami (60)	16 (27)	0.78192	0.01243	9.44633
Ft. Lauderdale (41)	20 (28)	0.93537	0.01347	10.23537
West Palm Beach (29)	15 (27)	0.94089	0.01317	10.00985
Jensen Beach (19)	12 (25)	0.92398	0.01143	8.69006
East Coast total (149)	45 (31)	0.901	0.01329	10.097
Key West (10)	3 (20)	0.6444	0.00705	5.35556
Overall total (362)	68 (35)	0.88612	0.01343	10.20699

SUPPLEMENTAL TABLE 4

Partitioning of variance components and *FST* of partial *ND4* and *ND5* mitochondrial haplotypes identified from cities in south Florida excluding Key West

Source of variation	df	Sum of squares	Variance components	% Variation	Φ -statistics
East Coast and West Coast					
Among groups	1	10.79	-0.008	-0.16	-0.00159
Among cities within groups	6	67.042	0.14628	2.84	0.02835*
Within cities	345	1729.459	5.01304	97.32	0.02681**
Total	352	1807.332	5.15115		
Within West Coast					
Among cities	3	21.556	-0.01242	-0.24	-0.00240
Among cemeteries within cities	19	136.273	0.26623	5014	0.05128
Within cemeteries in west coast	181	891.504	4.92544	95.10	0.04901*
Total	203	1049.33	5.17926		
Within East Coast					
Among cities	3	45.486	0.28628	5.58	0.05577*
Among cemeteries within cities	18	90.882	0.03676	0.72	0.00759
Within cemeteries in east coast	128	610.840	4.80977	93.71	0.06294
Total	149	747.208	5.13280		

* $P < 0.05$; ** $P < 0.001$.

SUPPLEMENTAL TABLE 5

Above diagonal: Effective number of migrants (Nm) between pairwise populations. Below diagonal: Pairwise F_{ST} values between sampled cities in south Florida

City	Tampa	St. Petersburg	Palmetto	Ft Myers	Miami	Ft. Lauderdale	West Palm Beach	Jensen Beach	Key West
Tampa	–	102.25	64.67	<i>Inf</i>	15.11	19.31	83.32	7.32	2.92
St. Petersburg	0.00487	–	18.61	<i>Inf</i>	57.63	1549.66	1040.49	3.44	6.5
Palmetto	0.00767	0.02616	–	12.61	5.87	10.09	18.02	7.33	2.3
Ft. Myers	–0.00167	–0.01834	0.03744	–	<i>Inf</i>	<i>Inf</i>	<i>Inf</i>	3.55	7.44
Miami	0.03203	0.00860	0.07839	–0.01127	–	42.13	<i>Inf</i>	2.61	9.76
Ft. Lauderdale	0.02523	0.00032	0.04720	–0.00148	0.01173	–	42.13	2.2	7.12
West Palm Beach	0.00596	0.00048	0.02699	–0.01305	–0.00698	0.01934	–	5.66	6.17
Jensen Beach	0.06389	0.12673	0.06384	0.12673	0.16052	0.18501*	0.08106	–	0.992
Key West	0.14578	0.07136	0.17815	0.06296	0.04872	0.06557	0.07495	0.33492*	–

* $P < 0.0013$ after Bonferroni correction.

Inf = infinity.

SUPPLEMENTAL TABLE 6

Tests for deviation from neutrality for partial $ND4$ and $ND5$ mitochondrial DNA across cities in south Florida

City (# of individuals)	Tajima's D	Fu & Li's D^*	Fu & Li's F^*	Fu's F	Ramos and Rozas R_2
West Coast					
Tampa (59)	2.3509*	1.26660	1.97893*	0.993	0.1846
St. Petersburg (75)	2.4718*	0.53021	1.49895	2.058	0.1820
Palmetto (39)	2.1245*	0.98500	1.62423	1.366	0.1884
Ft. Myers (30)	2.6904*	1.36661	2.1055*	5.815	0.2214
West Coast (203)	2.41759*	0.96659	–3.371	1.897*	0.1564
East Coast					
Jensen Beach (19)	0.08418	0.97538	1.08743	–0.872	0.1686
West Palm Beach (29)	1.46085	0.08895	0.62268	–0.338	0.1787
Ft. Lauderdale (41)	1.74380	0.75631	1.29793	–1.513	0.1796
Miami (60)	2.02714	1.5149*	2.02604*	1.985	0.1744
East Coast (149)	2.08000	0.67046	1.49893	–8.626	0.1621
Key West (10)	–1.13979	–1.61409	–1.68665	5.152	0.2460
Overall (362)	2.15858*	0.65842	1.5961	–16.90	0.1455

* $P < 0.05$.

SUPPLEMENTAL TABLE 7

Fixation indices corresponding to the groups of populations inferred by SAMOVA analysis for *Aedes aegypti* populations in south Florida (without Key West) tested for partial $ND4$ and $ND5$ mitochondrial sequences

No. of groups	Group composition	F_{SC}	F_{ST}	F_{CT}
2	1. Jensen Beach 2. All other populations	0.1416*	0.08201	0.06883**

* $P < 0.05$.

** $P < 0.001$.