Lab no.	Location	Material	Contexts	¹⁴ C age b.p. (± 1 σ)	¹³ C / ¹² C	¹³ C adjusted age B.P.	Radiocarbon age calibrated $(\pm 2\sigma)$	Ref- erence ^b
Pitt-831	Core 3 (783–799 cm)	Shell	Subtidal marine	22,600 ± 310	*	_	—	1
Pitt-685	Core 5 (15–35 cm)	Organics	Marsh peat	Modern	_	_	_	1
Pitt-686	Core 5 (68–83 cm)	Organics	Low marsh Spartina	1600 ± 40	_	_	a.d. 380–560	1
Pitt-687	Core 5 (489–508 cm)	Organics	Spartina in mud clast	2590 ± 40	_	_	830–550 в.с.	1
Pitt-733	Core 6 (133–151 cm)	Organics	Marsh, point bar	1720 ± 50 — —		a.d. 170–430	1	
Pitt-734	Core 6 (480–516 cm)	Organics	Spartina in mud clast	4290 ± 80	_	_	3270-2620 в.с.	1
Pitt-735	Core 6 (653–689 cm)	Shell	Subtidal marine	24,220 ± 500	*	_	27890–25780 в.с.	1
Pitt-736	Core 8 (317–334 cm)	Organics	Spartina in mud clast	3100 ± 50	_	_	1490–1220 в.с.	1
Unknown	Core 13 (494–500 cm)	Organics	Disseminated carbon	4370 ± 120	4370 ± 120 3		3370-2670 в.с.	1
GX-16792	Core 14 (275–285 cm)	Organics	Disseminated in mud	14,090 ± 640	14,090 ± 640 — 1		166500–13220 в.с.	1
Pitt-926	Core 17 (494–508 cm)	Organics	Marine lag deposit	4450 ± 50 — 3		3340-2930 в.с.	1	
Pitt–926a	Core 17 (494–508 cm)	Shell	Mixed marine shell bed	7870 ± 90	***	8280 ± 90	7340-6760 в.с.	1
Pitt-927	Core 20 (27 cm from bottom)	Shell	_	4370 ± 120	***	4780 ± 120	3570–2930 в.с.	_
GX-16791	Core 20 (72–84 cm)	Organics	North side of McQueen	2450 ± 150	_	_	900–200 в.с.	_
GX-16708	Core 20 (34–38 cm)	Shell	North side of McQueen	550 ± 120	***	340 ± 120	A.D. 1620–1950	_
GX-13966	Eroding tidal scar	Wood	2 in. below peat surface	730 ± 80	_	_	A.D. 1060–1410	_
UGA-6267	Core 9005051 (502–512 cm)	Organics	Freshwater peat	28,370 ± 340	*	_	31640–29610 в.с.	1
Pitt-925	Core 9005051 (502–512 cm)	Organics	Freshwater peat	33,510 ± 530	*	_	37580–34800 в.с.	1
Pitt-645	Station 26 (surface)	Organics	Relict Spartina	840 ± 50	-0.10	1080 ± 50	a.d. 820–1030	1
Pitt-645A	Station 26 (surface)	Shell	Geukensia	1570 ± 60	0	1980 ± 60	360 b.c.–a.d. 10	1
Pitt-646	(surface)	Organics	Disseminated in mud	1060 ± 60	0.1	1300 ± 60	a.d. 640–880	1
GX-13966	(surface)	Wood	Palmetto in mud	730 ± 80	_	_	A.D. 1060–1410	1
UGA-6160	South of line 43 south	Wood	In relict mud	470 ± 90	-27.52	430 ± 100	A.D. 1300–1660	2
UGA-6161	South of line 43 south	Ostrea	In relict mud	100 ± 80	-0.63	500 ± 80	A.D. 1500–1890	2

APPENDIX 1 Noncultural Radiocarbon Dates from St. Catherines Island^a

Lab no.	Location	Material	Contexts	¹⁴ C age B.P. (± 1σ)	¹³ C / ¹² C	¹³ C adjusted age B.P.	Radiocarbon age calibrated $(\pm 2\sigma)$	Ref- erence ^b
UGA-6162	South of line 43 south	Mercenaria	In relict mud	290 ± 90	-1.90	670 ± 90	A.D. 1350–1690	2
UGA-6163	South of line 43 south	Geukensia	In relict mud	190 ± 90	-1.13	580 ± 90	A.D. 1440–1810	2
Unknown	(surface)	Organics	Spartina in relict mud	480 ± **	_	_	A.D. 1310–1620	3
Unknown	(surface)	Organics	Spartina in relict mud	1830 ± **	_	_	a.d. 60–340	3
Unknown	(surface)	Crassostrea	In relict mud	1040 ± **	_	_	A.D. 1070–1330	4
UGA-6442	Cracker Tom Hammock	Crassostrea	Zone C	3200 ± 70	-1.51	3590 ± 50	1870–1540 в.с.	5, 6
USGS #WW-1197	Cracker Tom Bridge	Peat	Zone A	47,620 ± 2500	*	_	_	5, 6
USGS #WW-1262	Cracker Tom Bridge	Shell	Zone B	4060 ± 50	***	4450 ± 50	3000-2670 в.с.	5,6
USGS #WW-1198	Cracker Tom Bridge	Charcoal	Zone B	6020 ± 50	_	—	5040-4790 в.с.	5,7
Beta- 115910	Beach Pond (214 cm)	Wood	Zone B	1210 ± 40	_	_	a.d. 690–940	5
Beta- 217245	South Beach	Mercenaria	Relic marsh	780 ± 50 -1.4 1170 ± 50 A.D. 990-		a.d. 990–1230	8	
Beta- 217246	South Beach	Crassostrea	Relic marsh	620 ± 50 -1.7 1010 ± 50 A.I 1120-		A.D. 1120–1350	8	
Beta- 217823	St. Catherines Shell Ring	Composite shell	Vibracore #3, 3.5 m below surface	_	-0.6	>44,800	_	8
Beta- 217824	St. Catherines Shell Ring	Peat sample	Vibracore #2, 4.1 m below surface	39,130 ± 660	-26.2	39,110 ± 660	42420–40400 в.с.	8,9
Beta- 217825	St. Catherines Shell Ring	Peat sample	Vibracore #2, 4.1 m below surface	29,440 ± 260	-26.2	$29,410 \pm 260$	32710–31410 B.C.	8,9
Beta- 223509	St. Catherines Shell Ring	Composite shell	Vibracore	_	-2.0	>38,290	—	8, 9
Beta- 223511	St. Catherines Shell Ring	Composite shell	Vibracore	_	-2.0	>44,840	_	8, 9
Beta- 244621	North Beach	Organic sediment	—	$13,650 \pm 40$	-27.5	13,610 ± 40	15000–14630 в.с.	10
Beta- 244622	North Beach	Organic sediment	_	22,800 ± 130	-23.8	22,820 ± 130	26080–24980 в.с.	10
Beta- 260790	King New Ground Marsh	Crassostrea virginica	Modern sample	110.2 ± 0.4 pMC ^c	-2.6	$\begin{array}{c} 105.3 \pm 0.4 \\ pMC^{\circ} \end{array}$	_	_
Beta- 260791	King New Ground Marsh	Mercenaria	Modern sample	117.1 ± 0.4 pMC ^c	-2.2	111.8 ± 0.4 pMC ^c	—	_
Beta- 261655	CraneYard Pond 2A	Organic sediment	_	15030 ± 60	-24.5	15040 ± 60	16600–16070	—
Beta- 263588	St. Catherines Island	Peat sample	2009F 4.6	1900 ± 40	-26.4	1800 ± 40	а.д. 130–340	11
Beta- 262151	St. Catherines Island	Wood	2009H 4.5	1720 ± 50	-25.4	1720 ± 50	a.d. 170–430	11
Beta- 262150	St. Catherines Island	Wood	2009F 12.1	NA	-24.8	>43000	_	11
Beta- 261351	St. Catherines Island	Organics	2009H 6.3	6320 ± 60	-24.2	6330 ± 60	5470–5210 B.C.	11

APPENDIX 1 — (Continued)

Lab no.	Location	Material	Contexts	¹⁴ C age B.P. (± 1 σ)	¹³ C / ¹² C	¹³ C adjusted age B.P.	Radiocarbon age calibrated $(\pm 2\sigma)$	Ref- erence ^b
Beta- 259900	St. Catherines Island	Wood	2009H 14.1	20550 ± 110	-24.8	20550 ± 110	23010–22260 в.с.	11
Beta- 253537	Jekyll Island	Wood	2008C JEKYLL	3300 ± 40	-25.6	3290 ± 40	1680–1460 в.с.	11
Beta- 230798	_	Organics	2007A 13-6	31850 ± 320	-27.9	31800 ± 320	34910–33310 B.C.	11
Beta- 230797	_	Organics	2007A 5-2	1790 ± 40	-15.1	1950 ± 40	40 B.C.–a.d. 130	11
Beta- 220145	Jekyll Island	Wood	JEKYLL 2003C	45680 ± 3300	-16.5	45820 ± 3300	48050–41930 B.C.	11
Beta- 220144	Jekyll Island	Shell	JEKYLL 2002D	870 ± 40	-0.7	1270 ± 40	a.d. 890–1120	11
Beta- 220143	Jekyll Island	Shell	JEKYLL 2002B	1080 ± 40	-0.5	1480 ± 40	a.d. 680–890	11
Beta- 255650	_	Organic sediment	STCAT3A2A	10780 ± 60	-24.3	10790 ± 60	10900–10620 в.с.	12
Beta- 255651	_	Organic sediment	STCAT2A2A	6440 ± 40	-24.8	6440 ± 40	5480–5330 B.C.	12
Beta- 255652	_	Charred material	F44B HORSTCAT	6260 ± 40	-24.5	6270 ± 40	5320–5080 B.C.	12

APPENDIX 1 — (Continued)

^aAll marine dates corrected for reservoir effect, per Thomas, 2008, chap. 13; "cal" omitted throughout. ^bReferences: (1) Linsley (1993: appendix), (2) Bishop and Rich (1990), (3) Pemberton and Frey (1985),

(4) Fierstein and Rollins (1987), (5) Booth (1998), (6) Booth et al. (1999a), (7) Booth and Rich (1999), (8) Thomas (2008), (9) Booth et al. (1999b), (10) Vento and Stahlman (2008), (11) Chowns (chap. 9), (12) Vento and Stahlman (chap. 4).

^cIn radiocarbon reports, the terms "%Modern," or "pMC" are used interchangeably to denote the absolute "percent modern carbon" (with the term "modern" meaning 1950).

* Beyond the currently available calibration curve.

**Estimate of variability unavailable; for calibration purposes will assume ± 60 radiocarbon years.

***Fractionation estimate (¹³C ratio) unavailable; for calibration purposes will add 390 years (per Thomas, 2008, chap. 13).

APPENDIX 2

Vibracores and Artesian Wells Located on St. Catherines Island, Georgia Jost locations accurate within + 3 m (approximate locations enclosed in parenthese

Most locations accurate within ± 3 m (approximate locations enclosed in parentheses); older sites are approximated by using latitudes or longitudes from Google Earth[™]; well sites without casings are shown in brackets.

Vibracore	Location	Longitude W Latitude N	Total depth	Geology	Researchers
Transect A-A	North Beach Transects A', cores 1, 4, 2, and 3 (d	s (Linsley [199 escribed in Lin	3], with I sley, 199	H.B. Rollins), University of Pittsburgh 3; Linsley et al., 2008; fig. 3.5; Thomas et al.,	2008).
Post-Hugo core 1: North Beach; Yellow Banks Bluff, September (21), 1989	In relict mud near south end of Yellow Banks Bluff; 2.5 m east of bluff, 37 m south of station 1, high tide swash zone of modern beach, (Mor- ris and Rollins, 1979), elev. about 2.1 m above MLT.	(31.67562) (81.13687)	2.1 m	Spuded in relict marsh mud.	N. Hamilton H. Rollins G. Bishop D. Linsley
Post-Hugo core 2: North Beach; Yellow Banks Bluff, September (21), 1989	In relict marsh mud, modern beach, 22 m E of core 1; 37 m south of station 1, 7 m E of sand/mud contact; 0.4 m above MLT.	(31.67567) (81.13668)	5.3 m	Spuded in relict marsh mud.	N. Hamilton H. Rollins G. Bishop D. Linsley
Post-Hugo core 3: North Beach; Yellow Banks Bluff, September (21), 1989	Approximately 13 m east of core 2; spuded in relict mud; elev. ~0.9 m	(31.67569) (81.13652)	8.4 m	Dated intervals: shell bed at 783–799 cm depth in core, mixed subtidal marine (<i>Ana- dara, Mulinia, Donax</i>) and marsh shell (<i>Ily- anassa, Tagelus, Crassostrea</i>) assemblage dated at 22,600 \pm 310 yr B.P. (Pitt 831).	N. Hamilton H. Rollins G. Bishop D. Linsley
Post-Hugo core 4: North Beach: Yellow Banks Bluff, September (21), 1989	Modern beach swash zone, 14 m east of core 1, elev. 1.5 m above MLT, between core 1 & 2; 2 m west of sand/ mud contact.	(31.67562) (81.13700)	4.0 m	_	N. Hamilton H. Rollins G. Bishop D. Linsley
Transect B– [GP	North Beach Transects B', cores 5, 6, 7, and 8 (or S location by estimation	(Linsley [1993 lescribed in Lin on Feb. 3, 1993	3], with H Isley, 199 3, aerial j	H. B. Rollins), University of Pittsburgh 93; Linsley et al., 2008, fig. 3.7; Thomas et al. photography and map in Linsley et al., 2008]	2008).
Post-Hugo core 5: North Beach; Seaside Marsh meadow: September (21+), 1989	Modern beach, surface elev. of 1.2 m above MLT, immediately seaward of high tide wrack line; ~25 m S of station 20 and ~30 m E of baseline; 10 m N20°W from Hydra Tree; in sandy <i>Spar-</i> <i>tina</i> elev.	(31.67163) (81.13669) Transect B	5.2 m	Dated intervals: stacked lag deposits with a gradational fining-upward sequence of tidal creek channel point bar deposits and consisting of coarse to very coarse sands, and containing cm-size mud clasts with organics were dated at $15-35$ cm deep (Pitt 685), organics (marsh peat) dated as modern; 68–83 cm deep (Pitt 686), organics (low marsh) dated at 1595 ± 40 yr B.P.; 489–508 cm deep (Pitt 687), organics (<i>Spartina</i> in mud clast) dated at 2585 ± 40 yr B.P. (stated as 2590 ± 40 yr B.P. in Thomas, 2008: table 29.1).	N. Hamilton H. Rollins G. Bishop D. Linsley
Post-Hugo core 6: North Beach; Seaside Marsh meadow: September (21), 1989	On top of washover sands (15 cm thick), landward from core 5 behind vegetated beach dune ridge. 105 m N12°W from core 5, in barren overwash fan 22 m; elev. 1.3 m.	(31.67143) (81.13777) Transect B	7.9 m	Dated intervals: 133–151 cm depth (Pitt 723), organics, marsh point bar deposit, dated at 1720 \pm 45 yr B.P. 480–516 cm depth (Pitt 734), organics, <i>Spartina</i> in mud clast dated at 4285 \pm 80 yr B.P. 653–689 cm depth (Pitt 735), organics (Linsley, 1993: appendix 1) or shell (Thomas, 2008: table 29.1)? Subtidal marine, dated at 24,220 \pm 500 yr B.P. N.B. Linsley et al., 2008: fig.3.7, p.34 (in Thomas, 2008, v. 1) erroneously states that core 6 contains a date of 22,600 \pm 310 yr B.P. That date is actually 4285 \pm 80 yr B.P. (see above). The incorrect date was apparently inadvertently transposed from the figure depicting core 3, transect A–A'.	N. Hamilton H. Rollins G. Bishop D. Linsley

Vibracore	Location	Longitude W	Total depth	Geology	Researchers				
Post-Hugo core 7: North Beach, Seaside Marsh meadow; September 21, 1989	Sited on a low elev. (2.1–2.8 m above MLT) "marsh" ham- mock (veneer over marsh sediments, as opposed to an ero- sional remnant ham- mock), vegetated with longleaf pine and pal- metto.125 m N35°W from core 6 on N side of palm tree, west side of North Beach ham- mock.	(31.67210) (81.13838) Transect B	5.0 m	Dated intervals: none.	N. Hamilton H. Rollins G. Bishop D. Linsley				
Post-Hugo core 8: North Beach; Seaside Marsh meadow; September 21, 1989	Marsh behind and northwest of core 7, adjacent to a promon- tory of island core. 109 m N15°W from core 7; 30 m from island core; elev. 1.2–1.3 m. Near core 7.	(31.67335) (81.13875) Transect B	6.7 m	Dated intervals: $317-334$ cm depth (Pitt 736), <i>Spartina</i> in mud clast, dated at 3100 ± 50 yr B.P.	N. Hamilton H. Rollins G. Bishop D. Linsley				
North Beach Transects (Linsley [1993], with H.B. Rollins), University of Pittsburgh Transect D–D', cores 9004211, 13, 9003231, 16, 15, 14, 22. Described in Linsley (1993), Linsley et al. (2008), and Thomas et al. (2008)									
Core 9004211 April 21, 1990	Beach Pond core, eastern side of island in low elev. area between beach dune ridges. Easternmost core of transect D–D', surface elev. approx. 1.5 m above MLT, within 200 m of mod- ern beach. Base (depth of approx 370 cm) of core contains abundant marine shells (<i>Donax</i> and <i>Mulinia</i>).	(31.59947) (81.14896)	_	(see Booth et al., 1999b)	G. Bishop				
Core 13, August 1990	South Beach Road, high marsh tidal flat between two beach ridges. Elev. of top of core: ~1.45 m core taken 410 m NW of core 9004211 on modern high marsh in a wide area of salt marsh separating two areas of beach ridge complexes.	_	_	Dated intervals: 494–500 cm depth (lab no. unknown?), organics, disseminated carbon, full marine shells dated at 4370 \pm 120 yr B.P. (shells from lag bed at 3.45 m below MLT). Shells dominantly <i>Mulinia, Donax, Tellina</i> , and <i>Anadara</i> . Marine base directly overlain by 1.5 m of marshlike deposits.	D. Linsley H. Rollins R. Busch R.West C. Maples B. Cecil				
Core 9003231	South Beach Road in a swale between two dune ridges 800 m SW of core 13; surface elev. approx. 1.6 m above MLT.	_	_	Well-defined marine interval at base of core.	G. Bishop F. Rich				
Core 16, August 1990	South Beach Road, on beach ridge dune crest. Elev. top of core 3.7 m above MLT on a vegetated surface with live oak and palmetto, 675 m NW of core 9003231.	_	_		D. Linsley H. Rollins R. Busch R. West C. Maples B. Cecil				

Vibracore	Location	Longitude W Latitude N	Total depth	Geology	Researchers
Core 15, August 7, 1990	"First" (northernmost) causeway on South Beach Road; cored in a 50 m wide slough between beach ridges. Surface vegetation of short <i>Spartina</i> . Elev. of top at 1.50 m above MLT; core sited 260 m NW of core 16.	_	_	_	D. Linsley H. Rollins R. Busch R. West C. Maples B. Cecil
Core 14, August 7, 1990	Elev. 1.45 m above MLT; high marsh Spartina immediately adjacent to Pleistocene island core, 990 m west of core 15 (100 m east of old house owned by John Toby Woods, acc. to Linsley core log description).	_	_	_	D. Linsley H. Rollins R. Busch R. West C. Maples B. Cecil
Core 22	Westernmost end of transect D–D'; elev. 1.35 m above MLT; high marsh on the cut bank of a tidal creek levee, 35 m from the island core and 260 m SW of core 14. John- son Creek situated 400 m to the west of core 22. Core 22 reached depth of 5.64 m below MLT, as such is one of deeper cores recovered by Linsley project.	_	5.64 m	The lower portion of core 22 preserved a series of lag deposits similar to core 17, interpreted to be a progradational sequence adjacent to a tidal estuary (Linsley, 1993. p. 118).	D. Linsley H. Rollins R. Busch R.West C. Maples B. Cecil
Georgia Sout	hern University Early Pro	obing with UG	A Okefer	nokee Rig-G.A. Bishop, F.J. Rich, and Royce	e Hayes.
Terrain 6; Zapala Sound margin core 3/23/90	So. of large live oak in east-west salt swale	31.59936 81.16061	4.97 m	Also known as core 4. (See Bishop et al., fig. 10.4, this volume).	G.A. Bishop R.H. Hayes
State Road Pond core 6.08/99	On edge of freshwater pond.	31.63800 81.15375A	4.15 m	Also known as core 5 Laminated heavy mineral sand (HMS) at -2.5 m. (See Bishop et al., fig. 10.5, this volume).	G.A. Bishop R.H. Hayes
Island Ecology Program; North Beach, North Ox- bow core 16.2 6/06/95	On east edge of North Oxbow along line of GAB stand pipes.	(31.68551) (81.13601)	4.81 m	Also known as Core 3 9506061. Peat date: shell lag at -4.66 m. (See Bishop et al., fig 10.3, this volume).	B. Potter T. Keith- Lucas IEP students
Describ	bed in Booth et al., 1999:	Crack fig. 4; Bishop	er Tom T et al., 200	ransect)7: fig. 36; Linsley et al. 2008: figs. 3-4 and 3-	-9.
Cracker Tom Island core	—	(31.61821) (81.16097)	_	_	_
Cracker Tom Scarp core 6/08/99	-	(31.61705) (81.16021)	5.0 m	Ghost shrimp at 3.3 m.	G. Bishop R. Petkewich R. Hayes
Cracker Tom Hammock core	-	(31.616111) (81.15878)	5.52 m	Dated interval: oyster bed at 194–225 cm; 3200 ± 50 B.P.	G. Bishop R. Petkewich R. Hayes
Cracker Tom Bridge core	_	(31.61483) (81.15626)	5.03 m	Dated intervals: $487-503$ cm shells at 4060 \pm 50 B.P. and charcoal 6020 \pm 50 B.P.; Pol- len/spore assemblages described; dense Pteridophyte peat at 500-502 cm.	G. Bishop R. Petkewich R. Hayes

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Vibracore	Location	Longitude W Latitude N	Total depth	Geology	Researchers
Cracker Tom Rosetta core	—	(31.61491) (81.15644)	-	_	R. Boothe F. Rich
Island Ecology program core 6/23/00	_		4.95 m	_	B. Potter T. Keith- Lucas IEP students
	<u>.</u>	St. Catheri	nes Shell	Ring Cores	
Island Ecology Program – Long Field 2 SCSR-1	Northernmost core of St. Catherines Shell Ring transect; 30 ft N and ~5 ft east of AMNH station VB-001	31.65545 81.16959	4.13 m	(See Bishop et al., figs. 6 and 8, this volume).	B. Potter T. Keith- Lucas IEP students
Island Ecology Program – Long Field 1 SCSR-2	Second northern core of St. Catherines Shell Ring transect; ~30 ft south and 3 ft W of AMNH station VB-001.	31.65533 81.16960	3.68 m	Do	B. Potter T. Keith- Lucas IEP students
Island Ecology Program – Long Field 3 SCSR 3	Third core along transect; ~22 ft north and on grid line of AMNH station VB-001.	31.65525 81.16592	3.60 m	Do	B. Potter T. Keith- Lucas IEP students
AMNH & SCISTP Aka: 20061102-1 SCSR-4	Fourth core of St. Catherines Shell Ring transect.	31.65526 81.16959	4.75 m	Do	G. Bishop M. Sanger A. Semon G. Mahar
AMNH & SCISTP SCSR-5	Fifth core in St. Catherines Shell Ring transect; in shell ring.	31.65497 81.16952	_	Do	G. Bishop M. Sanger A. Semon G. Mahar
AMNH & SCISTP SCSR-6	Sixth core of St. Catherines Shell Ring transect; inside shell ring.	31.65475 81.16959	_	Do	G. Bishop M. Sanger A. Semon G. Mahar
The topographic I "trough" spreads of bends into an E- *Coordinates take nates on map	Georgia Sout ow near road jct. 61 tren out into Gator Pond mars W trend approaching the trough on the NE and en with Garmin e-trex un) added to each latitude. 1	hern Universit ds N35–40°E a h to the NE and crane yard wet d SW side of th it. Values show Longitudes gen	y Central and coinc d into ma lands. Ci ne road no vn here ir nerally go	Depression Research Group ides with a synformal subsurface feature. The rshy area around the crane yard to the SW as rcular depressions were observed along the m ear jet. 61. Site 3 sits in one of these. Iclude a 1.3 sec correction (based on road junc od except core 9, which appeared to be off by	topographic this drainage argin of the ction coordi- 1.3 sec.
Georgia Southern University (GSU) core 1 2008-05-27/31	Located in drainage adjacent to road jct. 61, northeast side of the road between jct. 61 and jct. 60 coin- cides with synformal subsurface feature in road area. Original upper meter may have been removed by pond and road excavation at this site.	31.684639 81.145806	_	See Bishop et al., chap. 10: "Gator Pond," this volume, for log summary of GSU cores 1–9 and palynological analysis.	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
GSU core 2 2008-05-27/31	In Gator Pond marsh, ~ 7 m from SW margin of marsh	31.685528 81.145806	_	_	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw

Vibracore	Location	Longitude W Latitude N	Total depth	Geology	Researchers
GSU core 3 2008-05-27/31	In depression on NE side of road that runs from jct. 61 to jct. 60. (From jct. 61, the site is 55.5 m NW of jct. 61 along the road, then 12.8 m into depression in woods on NE side of road.) Site 3a and 3b ~2 ft apart.	31.684861 81.146028	_	Circular depressions were observed along the margin of the trough on the NE and SW side of the road near jct. 61. Site 3 sits in one of these. Site within or on the margin of the synformal feature shown on the GPR profile	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
GSU core 4 2008-05-27/31	Located on SE side of road jct. 61. The site is 19 m east of jct. 61 measured along road from jct. 61 toward jct. 10, then 6.9 m on the south side of the road in a small clearing in the trees and palmetto. This site is on the higher ground on the SE side of the topo- graphic low containing the gator ponds.	31.684389 81.145556	_	_	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
GSU core 5 2008-05-27/31	Location is ~25.3 m SE (along road) of jct. 61 and approximately 11.3 m on W side of road between jct. 61 to and the Windmill Pond Road intersection. This site is on the high ground on the SE side of the drainage.	31.684139 81.145889	_	_	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
GSU core 6 2008-05-27/31	Located near road on high ground on the NE side of road between jct. 61 and jct. 60.	31.685250 81.146917	_	_	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
GSU core 7 2008-05-27/31	New pond site in crane yard area — measured ~ 1 m sect in pond walls, then set up vibracore at ~ 1.3 m below ground surface in the bottom of the pond below the hard- est part of the humate "hardpan."	31.683167 81.151806	_	_	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
GSU core 8	On SE side of road jct. 10, ~14.5 m W of cur- rent jct. 10 and 12.8 m S of the E–W road.	31.685694 81.145806	_	_	R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
GSU core 9	SE of road jct. 60, ~ 24 m on SW side of road between jct. 60 and 61.	31.686028 81.148806	_		R.K. Vance G. Bishop S. Ferguson J. DeLaMater N. Wieclaw
G A series	eorgia Southern Universi of cores drilled off the Is	ty Kim Harget	t Norther	n Terrain Thesis Cores 6/05 and 6/06/2010 rn accretionary terrains north of Engineers Sca	arp.
GSU Kim Hargett core 1	Not recovered	31.6956 81.1469	_	_	K. Vance B. Meyer B. Nelson K. Hargett

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Vibracore	Location	Longitude W Latitude N	Total depth	Geology	Researchers
GSU KH core 2	Road jct. in Holocene swale. Same swale as core 5.	31.6956 81.1469	1.72 m	Organic-rich soil and fine to medium sand to 0.42 m, fine sand with HMS to 4%–5% in laminated zones from 0.42–0.9 m. Very fine laminated sand with 8–15% HMS from 0.89–0.93 m. Fine to very fine sands with HMS to 4% in laminated zones, interlayered with poorly sorted fine sand to granules from 0.93–1.72 m. Mica present below 0.9 m. Laminated sands at 1.72–2.11 m contain minor clay. (See core 5.)	K. Vance B. Meyer B. Nelson K. Hargett
GSU KH core 3	At toe of Engineers Scarp, west side of Engineers Rd.	31.6922 81.1470	2.76 m	Gray topsoil and light gray fine to very fine sand to 0.34 m with accessory mica and HMS. Fine to very fine sand with $1\%-2\%$ HMS to 1.84 m. Strong goethite pigmenta- tion in mottled zone at 0.65–0.87 m. Sharp contact at 1.84 m with fine to very fine poorly laminated sands with pale green tint, 1%-2% HMS and traces of clay.	K. Vance B. Meyer B. Nelson K. Hargett
GSU KH core 4	Engineers Rd. (north of jct.) in broad Holocene swale.	31.6979 81.1435	2.29 m	Organic-rich soil and fine sand to .77 m, fine to very fine sand with $1-2\%$ HMS and accessory mica from $0.77-1.7$ m. Laminated sands with $2\%-5\%$ HMS and accessory mica from $1.7-2.29$ m. Minor clay in dark laminations near base.	K. Vance B. Meyer B. Nelson K. Hargett
GSU KH core 5	Holocene swale west of jct. on Engineers Rd. (same swale as core 2)	31.6957 81.1470	1.81 m	Organic-rich soil and medium to fine sand to .28 m, fine sand with 2–4% HMS at .28–.56 m; well sorted fine to very fine sand with 4–5% HMS interlayered with poorly sorted fine sand to granules at .56–1.8 m. Muscovite abundant at 1.3 m in coarse zones. Minor clay in fine, laminated sands at 1.8 m.	K. Vance B. Meyer K. Hargett F. Rich
	Island Eco Taken on t	logy Program he eastern and	Gardner I western	Peninsula Cores 6/06/2010 sides of Gardner Peninsula	
IEP GP core 1	In marsh east of Gard- ner Peninsula; over site of hypothesized ham- mock. In (stranded) marsh west of Gardner Peninsula; behind Gardner Peninsula.	31.6232 81.1553	4.62 m	Well-stratified; horiz. lam. 1.1–1.8 m; disconformity at 2.25 m on top dark brown mottled sand.; hm lam 3.9–4.62 m. Mottled sandy mud 2–2.35 m (? disconformity); 4–5 cm indurated ss at 4.10–4.15 m; coarse sand 4.15–4.62 m.	B. Potter T. Keith- Lucas IEP Students
IEP GP core 2	Holocene Marsh and Beach Ridge, terrain XI.In marsh east of Gardner Peninsula; over site of hypoth- esized hammock.	31.6232 81.1553	4.62 m	Well-stratified; horiz. lam. 1.1–1.8 m; disconformity at 2.25 m on top dark brown mottled sand.; hm lam 3.9–4.62 m.	B. Potter T. Keith- Lucas IEP Students
	W	est Georgia Co	llege Tin	h Chowns' Projects	
2007 B	St. Catherines Spit Holocene marsh and beach ridge, Terrain XI	31.57710 81.16164	3.4 m	Progradational sequence from beach into marsh.	T. Chowns Sanders Stogner
2009 G Zapala Scarp	Slough within Cracker Tom Terrain III	31.60088 81.16451	4.63 m	Holocene beach facies resting on Pleistocene (Chowns, chap. 9).	T. Chowns G. Bishop
2009 H Zapala Scarp	Long Marsh south of South Beach Road	31.59996 81.16465	5.09 m	Holocene marsh and beach facies (1720±50) resting on Pleistocene (20,550±110) (Chowns, chap. 9).	T. Chowns G. Bishop
2010 A	Long Marsh 20 m south of 2009 H	31.59977 81.16469	5.61 m	Holocene washovers and beach sands resting on Pleistocene.	T. Chowns Kath
2010 B	South Beach Road 34 m north of 2009 H	31.60021 81.16459	5.67 m	Holocene beach ridge resting on Pleistocene.	Madden Albright

Vibracore Location Longitude W Total Geology Researchers Latitude N depth Engineers Scarp (aka 2010 G 31.69171 3.11 m Pleistocene sand. T. Chowns St. Catherines St. Catherines Scarp), 81.14570 Kath east of Engineers Road Scarp Engineers Scarp (aka 2010 H 31.69200 5.63 m Holocene inlet fill. Madden 81.14566 St. Catherines Scarp), Albright east of Engineers Road SCS 1 Southern Accre-31.59892 Heavy mineral sand; unsuitable for dating T. Chowns Shelby Cores 81.15864 tional Terrains (aka (Chowns, chap. 9). Sanders Beach Ridge St. Catherines Spit of Stogner Terrain VJ Chowns), dune and beach sands SCS 2 Southern Accre-31.59946 2.4 m osl 1.3 + 0.5 kaT. Chowns Shelby Cores tional Terrains (aka 81.15850 Sanders Beach Ridge St. Catherines Spit of Stogner Terrain V Chowns), dune and beach sands SCS 3 Southern Accre-31.59947 2.1 m osl 1.5 ± 0.3 ka T. Chowns 81.15079 Shelby Cores tional Terrains (aka Sanders Beach Ridge St. Catherines Spit of Stogner Terrain XIĬ Chowns), dune and beach sands SCS 4 Southern Accreosl 1.2 ± 0.3 ka 31.59891 2.1 m T. Chowns Shelby Cores tional Terrains (aka 81.15185 Sanders Beach Ridge St. Catherines Spit of Stogner Terrain XII Chowns), dune and beach sands Southern Accre-SCS 5 31.58327 2.1 m osl 1.2 ± 0.1 ka T. Chowns Shelby Cores tional Terrains (aka 81.15784 Sanders Beach Ridge St. Catherines Spit of Stogner Terrain VI Chowns), dune and beach sands SCS 6 Southern Accre-31.57685 2.1 m osl 0.9 ± 0.1 ka T. Chowns Shelby Cores tional Terrains (aka 81.16172 Sanders St. Catherines Spit of Beach Ridge Stogner Chowns), dune and Terrain XII beach sands SCS 7 Southern Accre-31.57391 2.1 m osl 0.3 ± 0.1 ka T. Chowns Shelby Cores tional Terrains (aka 81.16314 Sanders Beach Ridge St. Catherines Spit of Stogner Terrain XIĬ Chowns), dune and beach sands Southern Accre-31.58947 osl 0.5 ± 0.1 ka SCS 8 2.1 m T. Chowns Shelby Cores tional Terrains (aka 81.15580 Sanders Beach Ridge St. Catherines Spit of Stogner Terrain XII Chowns), dune and beach sands SCS 9 Southern Accre-31 56000 1.5 m $osl 0.5 \pm 0.3$ ka T. Chowns tional Terrains (aka Shelby Cores 81.17280 Sanders Beach Ridge St. Catherines Spit of Stogner Terrain XVII Chowns), dune and beach sands SCS 10 Southern Accre-31.56429 1.5 m osl 1.0 ± 0.1 ka T. Chowns Shelby Cores tional Terrains (aka 81.16690 Sanders Beach Ridge St. Catherines Spit of Stogner Terrain XV Chowns), dune and beach sands SCS 11 Southern Accre-31.57264 1.8 m osl 0.7 ± 0.1 ka T. Chowns 81.16246 Shelby Cores tional Terrains (aka Sanders St. Catherines Spit of Beach Ridge Stogner

APPENDIX 2 — (*Continued*)

Terrain XIV

Chowns), dune and beach sands

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Vibracore	Location	Longitude W Latitude N	Total depth	Geology	Researchers				
Two cores were d	Georgia Sout rilled to test the presence	hern University e of the GPR di	y South F isconforn	Pasture Disconformity Project nity discovered by R.K. Vance (see Vance et a	l., chap. 11).				
South Pasture 2 Control Core GPR Disconformity	West side of road to South Plantation ~ 700 m south of junction of State Road and South Beach Road.	31.61447 81.17341	1.9 m	(See Vance et al., chap. 11: fig. 11.7, this volume). Structureless, tan, fine- to medi- um-grained sand $(\sim 1\%$ HMS) to 1.8 m, fine to very fine sand with $4-5\%$ HMS at 1.8 to 1.9 m. Charcoal fragments ($2-3$ mm) noted to depths of ~ 1 m in both cores.	R.K. Vance				
South Pasture 1 Ground Truth Core GPR Disconformity	West side of road to South Plantation \sim 1500 m south of junction of State Road and South Beach Road.	31.61372 81.17422	2.4 m	Structureless, tan to white, fine- to medium- grained sand (~1% HMS) to 1.94 m, gray, fine to very fine sand with 3%–5% HMS to 2.2 m. Contact with waxy blue-gray clay at 2.2 m marks the disconformity. Fe-oxide mottling in and above clay. (See Vance et al., chap. 11: fig. 11.7, this volume).	R.K. Vance				
The Artesian and Deep Wells of St. Catherines Island, Georgia Royce Hayes, Jack Waters, and Brock Nelson visited all known artesian well sites on St. Catherines Island on June 16 and recorded GPS coordinates and documented each site. An Oral History of <i>Artesian Wells on St. Catherines</i> , from John Toby Woods was consulted during this expedition (by Brock R. Nelson; Royce H. Hayes, Jr., and Jack Waters). (See Thomas, chap. 1: fig. 1.8, this volume for map of well distribution).									
South End boiler well	Located near boiler on the point.		-	_	R. Hayes J. Waters B. Nelson				
Flag Pond well	Located on south end of pond near cattle gate.		—	Drilled before 1900	R. Hayes J. Waters B. Nelson				
1st King New Ground well	_	31.65283 81.14578	-	Drilled before 1900	R. Hayes J. Waters B. Nelson				
Button Gwinnet house well	Located just off south porch under oak tree. Supplied house and pool with water.	31.67237 81.15868	_	Drilled before 1905	R. Hayes J. Waters B. Nelson				
Power House/ Bradford Hall well	Located in-between and just north of the two structures	31.66931 81.15868	_	Drilled around 1930—8 in. pipe	R. Hayes J. Waters B. Nelson				
Sawmill well	Exact location not known but location is within 100 m of the old mill site and actual well site.	31.68119 81.15474	_	Drilled in 1939	R. Hayes J. Waters B. Nelson				
Windmill well	Located directly below the windmill on Windmill Rd.		_	Drilled in 1946	R. Hayes J. Waters B. Nelson				
North Pasture well	Approximate location due to missing well pipe.	31.68806 81.14218	_	4 in. well drilled in 1946	R. Hayes J. Waters B. Nelson				
Second King New Ground well	Located near the old goat cabin.	31.65188 81.14671	-	Drilled in 1946	R. Hayes J. Waters B. Nelson				
Beach Pond well	Located just off South Beach Ramp.	31.59628 81.14946	_	Drilled in 1946	R. Hayes J. Waters B. Nelson				
Well	Located east of Back Creek Road.	31.61777 81.16234	_	Drilled in 1946	R. Hayes J. Waters B. Nelson				
Greenseed Pond well	Located east of Back Creek Road.	31.65154 81.15917	_	Drilled in 1963	R. Hayes J. Waters B. Nelson				

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Vibracore	Location	Longitude W Latitude N	Total depth	Geology	Researchers
South End Dock well	Flowed freely only during high tide.	31.60756 81.17761	_	Drilled in 1967	R. Hayes J. Waters B. Nelson
Wamassee Pond well	-	31.63021 81.16800	_	Drilled in 1968	R. Hayes J. Waters B. Nelson
South-West well	Located west of the old slave quarters, used for cattle and water.	31.60958 81.17689	_	Drilled in 1968	R. Hayes J. Waters B. Nelson
Back Creek well	Last free flowing well on the island.	31.62179 81.15593	_	_	R. Hayes J. Waters B. Nelson