

[illegible]

TR126-24	03.42	00.57	49.29	00.85	11.11	00.00	06.27	00.00	02.28	02.56	00.85	01.99	00.28	00.00	00.00	07.41	00.00	03.13	00.00	00.00	00.00	00.57	00.00	00.00	00.00	04.56	00.00	04.84	00.00	00.00	100.00	
TR126-25	02.51	00.50	43.72	02.76	10.80	00.25	09.80	00.25	01.01	03.52	00.00	01.26	00.00	00.00	01.01	10.30	00.00	01.01	00.00	00.75	00.00	01.51	00.00	00.00	00.00	02.76	00.00	06.28	00.00	00.00	100.00	
TR126-26	01.05	00.52	54.59	01.57	04.99	00.00	09.71	00.00	01.05	03.15	00.00	00.79	00.00	00.00	00.00	04.99	00.00	05.25	00.00	00.00	00.00	00.26	00.00	00.26	00.00	06.04	00.00	05.77	00.00	00.00	100.00	
TR126-26A	03.14	00.24	54.35	01.45	05.56	00.00	05.56	00.00	00.97	02.42	00.48	01.45	00.48	00.00	00.00	04.83	00.00	05.07	00.00	00.00	00.00	00.48	00.00	00.00	00.00	07.00	00.00	06.52	00.00	00.00	100.00	
TR126-27	01.03	00.41	56.67	01.64	09.65	00.21	04.11	00.00	01.23	01.03	00.21	00.41	00.41	00.00	00.00	06.78	00.00	04.31	00.00	00.21	00.00	00.41	00.00	00.21	00.00	05.34	00.00	05.75	00.00	00.00	100.00	
TR126-28	01.69	01.02	55.59	01.02	05.76	00.00	05.08	00.00	03.05	00.68	00.34	01.69	01.36	00.00	00.34	05.08	00.00	04.75	00.00	00.00	00.00	01.02	00.00	00.34	00.34	04.07	00.00	06.78	00.00	00.00	100.00	
TR126-30	00.96	00.00	56.90	02.68	09.00	00.00	05.56	00.00	00.77	02.68	00.96	01.34	00.19	00.00	00.00	09.39	00.00	02.11	00.00	00.00	00.00	00.38	00.00	00.00	00.00	02.87	00.00	04.21	00.00	00.00	100.00	
TR126-31	04.11	00.00	53.42	02.05	07.53	00.00	06.85	00.00	02.05	01.71	00.00	02.74	00.00	00.00	00.68	05.14	00.00	03.08	00.00	00.00	00.00	00.34	00.00	00.00	00.34	03.77	00.00	06.16	00.00	00.00	100.00	
TR126-33	01.16	00.00	50.12	03.25	09.74	00.46	03.94	00.00	01.16	01.16	00.46	04.41	00.46	00.00	00.00	07.89	00.00	03.02	00.00	00.70	00.00	01.86	00.00	00.00	00.00	05.10	00.00	05.10	00.00	00.00	100.00	
TR126-34	02.61	00.00	61.74	01.45	04.64	00.00	04.93	00.00	03.77	01.74	00.29	01.45	00.58	00.00	00.00	03.19	00.00	03.77	00.00	00.00	00.00	00.58	00.00	00.29	00.29	05.80	00.00	02.90	00.00	00.00	100.00	
TR126-35	00.78	00.52	70.03	01.29	06.46	00.00	03.10	00.00	04.13	01.29	00.26	00.26	00.00	00.00	00.00	04.13	00.00	01.55	00.00	00.26	00.00	00.26	00.00	00.00	00.00	03.10	00.00	02.58	00.00	00.00	100.00	
TR126-37	02.35	01.01	53.36	01.68	02.68	00.00	04.70	00.00	06.04	03.69	00.00	00.67	01.01	00.00	00.00	04.70	00.00	05.37	00.00	00.67	00.00	00.34	00.00	00.00	00.00	06.71	00.00	05.03	00.00	00.00	100.00	
TR126-38	01.84	00.00	56.24	00.00	03.89	00.00	08.18	00.00	04.91	00.82	00.61	00.82	00.20	00.00	00.00	05.52	00.00	07.16	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.82	05.73	00.00	03.27	00.00	00.00	100.00
TR126-39	01.84	00.79	43.68	00.26	07.89	00.00	03.95	00.00	07.11	02.11	01.58	01.58	00.00	00.00	00.00	08.16	00.00	07.63	00.00	00.00	00.00	00.26	00.00	00.00	00.26	10.26	00.00	02.63	00.00	00.00	100.00	
GYRE94H002-GC02	01.43	00.86	35.14	00.86	00.57	00.00	02.57	04.29	08.00	02.29	00.00	00.29	00.00	00.00	00.00	07.71	00.00	09.71	00.00	00.29	15.14	00.86	00.00	00.00	00.00	02.86	00.00	06.00	00.00	01.14	100.00	
GYRE94H008-GC08	01.93	00.97	31.16	01.45	01.93	00.00	05.31	03.86	08.21	04.35	00.48	00.24	00.00	00.00	00.00	10.14	00.00	12.08	00.00	00.00	08.70	00.97	00.00	00.00	00.00	01.69	00.00	05.56	00.24	00.72	100.00	
GYRE94H017-GC16	01.42	02.28	34.76	00.00	03.13	00.00	10.83	03.13	05.13	01.42	00.28	00.00	00.28	00.00	00.00	00.28	00.00	09.97	00.00	00.12	00.00	00.57	11.40	01.99	00.00	00.00	02.28	00.00	01.14	00.00	00.57	100.00
GYRE94H018-GC17*	04.02	01.21	29.18	00.00	08.45	00.00	05.23	02.21	02.01	00.40	00.40	00.00	00.00	00.00	00.00	08.85	00.00	12.68	00.00	00.00	10.66	02.41	00.00	00.00	00.00	09.86	00.00	02.21	00.00	00.20	100.00	
GYRE94H022-BX22*	01.24	00.62	22.05	00.00	13.04	00.31	04.66	01.24	00.31	00.00	00.00	00.00	00.00	00.00	00.00	21.12	00.00	11.18	00.00	00.00	09.63	00.93	00.00	00.00	00.00	13.66	00.00	00.00	00.00	00.00	100.00	
GYRE94H023-GC23*	01.30	00.33	37.46	00.00	04.89	00.00	02.93	03.91	12.38	03.58	00.00	00.00	00.00	00.00	00.00	08.14	00.00	05.21	00.00	00.33	07.82	00.33	00.00	00.00	00.00	02.93	00.00	07.82	00.00	00.65	100.00	
GYRE94H025-BX25	00.31	00.31	55.49	03.45	04.39	00.00	01.88	01.88	06.58	05.64	00.00	00.00	00.00	00.00	00.00	08.78	00.00	01.88	00.00	00.00	02.82	00.00	00.00	00.00	00.31	01.25	00.00	03.76	00.00	01.25	100.00	
GYRE94H039-GC36	00.45	00.00	72.27	00.91	03.18	00.00	00.45	04.55	06.82	05.91	00.00	00.00	00.00	00.00	00.00	01.82	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	02.73	00.00	00.91	100.00	
GYRE94H041-GC37	00.88	00.00	59.12	01.76	01.47	00.00	02.35	02.35	08.82	06.18	00.00	01.47	00.00	00.00	00.00	06.18	00.00	02.65	00.00	00.00	02.65	00.00	00.00	00.00	00.00	00.88	00.00	03.24	00.00	00.00	100.00	
GYRE94H045-BX39*	00.19	00.76	43.54	00.95	03.80	00.00	04.56	00.57	03.42	01.33	00.00	00.76	00.00	00.00	00.00	08.94	00.00	13.88	00.00	00.00	08.17	00.19	00.00	00.00	00.00	03.80	00.19	04.56	00.00	00.38	100.00	
GYRE94H050-GC43	02.79	01.96	32.96	00.00	06.42	00.28	01.40	03.91	03.63	00.28	00.28	00.00	00.00	00.00	00.00	07.82	00.00	10.34	00.56	00.28	13.69	00.56	00.00	00.00	00.84	08.66	00.00	02.23	00.00	01.12	100.00	
GYRE94H051-GC44*	00.52	03.12	32.21	00.00	01.56	00.00	01.30	05.97	01.82	00.00	00.52	00.00	00.00	00.00	00.00	10.65	00.00	16.88	00.00	00.00	14.81	01.82	00.26	00.00	00.00	06.23	00.00	01.04	00.00	01.30	100.00	
GYRE94H058-GC50	01.57	00.00	66.67	01.57	02.20	00.00	05.35	03.14	05.35	00.31	00.00	00.94	00.00	00.00	00.00	05.66	00.00	02.20	00.00	00.00	01.26	00.00	00.00	00.00	00.31	00.63	00.00	02.52	00.00	00.31	100.00	
GYRE94H093-GC70*	02.46	00.99	31.53	00.00	04.43	00.00	04.19	03.94	01.48	00.49	00.00	00.00	00.00	00.00	00.00	06.16	00.00	17.98	00.00	00.00	15.27	00.49	00.00	00.00	00.49	07.88	00.00	01.72	00.00	00.49	100.00	
GYRE94H114-GC81	01.50	01.50	47.75	00.30	02.70	00.00	01.50	03.60	05.41	02.10	00.00	00.00	00.00	00.00	00.30	06.91	00.00	10.81	00.00	01.20	07.81	00.00	00.00	00.30	00.00	02.70	00.00	03.30	00.00	00.30	100.00	
GYRE94H121-GC88	00.00	00.00	44.00	00.00	00.33	00.00	00.00	03.33	06.00	00.67	00.00	00.00	00.00	00.00	00.00	11.00	00.00	13.33	00.00	00.00	17.00	01.67	00.00	00.00	00.00	00.33	00.00	02.33	00.00	00.00	100.00	
GYRE94H136-GC96	01.37	00.69	48.11	04.12	01.37	00.00	01.03	02.41	07.22	04.12	00.00	03.78	00.00	00.00	00.00	07.22	00.00	04.47	00.00	00.00	03.44	00.00	00.00	00.00	00.00	00.69	00.00	09.28	00.00	00.69	100.00	
GYRE94H141-GC100*	00.74	00.74	44.12	00.37	00.74	00.00	00.00	01.84	06.62	01.10	00.00	00.00	00.00	00.00	00.00	08.46	00.00	15.44	00.00	00.00	14.71	00.37	00.00	00.00	00.00	01.84	00.00	02.57	00.00	00.37	100.00	

Appendix 1. Gulf of Mexico core-top planktic foraminifer census data.

Core	Depth (cm)	LAT	LON	Depth (m)	<i>O. universa</i>	<i>Gs. conglobatus</i>	<i>Gs. ruber</i> (total)	<i>Gs. tenellus</i>	<i>Gs. sacculifer</i> (total)	<i>S. deliscens</i>	<i>Ga. aequilateralis</i>	<i>G. calida</i>	<i>G. bulloides</i>	<i>G. faconensis</i>	<i>G. digitata</i>	<i>G. rubescens</i>	<i>T. quinqueloba</i>	<i>N. pachyderma</i> (left)	<i>N. pachyderma</i> (right)	<i>N. dutertrei</i>	<i>G. hexagona</i>	<i>P. obliquiloculata</i>	<i>Gl. inflata</i>	<i>Gl. truncatulinoides</i> (left)	<i>Gl. truncatulinoides</i> (right)	<i>Gl. crassaformis</i>	<i>P - D</i> intergrade	<i>Gl. hirsuta</i>	<i>Gl. scitula</i>	<i>Gl. menardi</i> complex (total)	<i>C. nitida</i>	<i>Gt. glutinata</i>	<i>H. pelagica</i>	Other	Total
VM03-07TW	1-2	23.583	-82.150	1681	9	2	117	2	49	0	39	2	2	2	0	4	0	0	17	17	0	8	0	0	2	1	0	0	1	18	0	24	0	1	317
VM03-13TW	1-2	26.450	-84.950	1447	10	2	146	4	34	0	37	3	1	12	1	3	0	0	22	0	32	0	0	7	1	0	0	4	24	1	47	0	6	397	
VM03-15TW	1-2	26.483	-85.033	1639	6	2	142	7	32	0	20	6	7	36	0	8	0	0	39	0	11	23	1	11	7	0	0	3	12	0	17	0	2	392	
VM03-16TW	0	26.533	-85.033	3286	5	2	164	3	33	0	32	3	1	5	0	6	1	0	10	0	10	0	0	6	2	0	0	6	19	0	26	0	2	336	
VM03-17TW	4-5	26.133	-85.517	3266	12	0	119	1	52	0	20	1	2	21	1	6	1	0	22	0	10	0	1	8	1	0	0	0	15	2	21	0	2	318	
VM03-21TW	1-2	26.083	-84.867	1616	9	4	157	1	32	0	45	0	0	14	2	4	2	0	30	0	21	0	0	11	4	0	0	3	17	2	32	0	0	390	
VM03-23TW	3-4	25.250	-84.767	3168	7	0	138	1	22	0	36	8	2	4	0	2	0	0	14	0	9	1	0	5	1	0	0	7	16	2	33	0	0	308	
VM03-24TW	2-3	24.933	-85.367	3343	6	4	124	0	78	1	6	1	9	1	0	0	1	0	2	30	0	12	2	4	11	1	2	4	0	29	0	12	0	4	344
VM03-28TW	0	23.950	-86.183	1496	13	2	132	3	53	0	28	6	2	5	1	5	1	0	0	17	0	9	0	1	5	0	0	0	0	25	1	23	0	3	335
VM03-30TW	2-3	24.700	-87.300	1928	7	0	120	5	48	1	24	4	3	11	0	2	0	0	2	22	0	4	0	0	0	2	1	0	1	7	3	33	0	4	308
VM03-31TW	0	24.850	-87.233	3374	14	6	90	0	69	2	11	6	4	0	0	1	0	0	0	45	0	8	6	1	14	3	2	0	0	41	0	1	0	6	330
VM03-32TW	0	25.300	-87.233	3369	20	0	107	1	49	0	17	18	10	5	0	1	1	0	0	13	0	6	0	0	5	0	1	1	3	17	2	17	0	4	298
VM03-34TW	0	27.100	-87.117	2889	12	2	188	0	51	0	14	28	6	5	0	4	2	0	1	16	0	12	0	2	7	1	0	0	0	27	0	30	0	7	415
VM03-35TW	1-2	27.367	-85.700	3221	7	0	144	2	35	0	9	13	10	11	0	3	0	0	2	14	0	10	0	1	8	9	7	0	0	10	0	5	0	4	304
VM03-37TW	1-2	27.433	-85.517	2372	6	0	137	5	28	0	14	7	10	25	0	4	0	0	1	22	0	4	8	1	4	4	4	3	4	3	0	17	0	6	317
VM03-38TW	0	28.133	-86.433	988	1	1	134	2	31	0	14	23	14	30	0	0	0	0	17	0	16	0	1	12	9	4	2	2	17	0	32	0	19	381	
VM03-39TW	0	28.450	-86.550	647	5	3	180	4	31	0	5	21	12	51	0	5	3	2	2	28	0	25	1	3	21	3	13	6	1	32	3	31	0	9	500
VM03-41TW	0	29.200	-87.033	832	2	0	118	1	9	1	10	13	27	22	0	1	3	0	3	12	0	14	0	1	19	4	4	1	0	24	0	30	0	3	322
VM03-42TW	0	29.433	-86.967	667	2	1	96	3	15	0	5	17	10	38	2	1	0	1	2	16	0	12	8	3	18	4	4	2	15	0	9	0	9	297	
VM03-45TW	0	28.967	-88.550	647	1	3	106	1	21	0	3	10	1	34	0	1	0	0	0	28	0	23	0	2	14	6	2	1	0	15	0	13	0	1	286
VM03-49TW	0	25.250	-90.500	3550	2	1	114	3	48	1	10	6	2	14	1	3	1	0	2	23	0	13	0	0	16	4	0	1	0	29	0	20	0	7	321
VM03-51TW	0	23.800	-89.600	2849	11	1	128	3	24	0	24	5	4	14	2	9	1	0	1	16	0	16	1	1	17	2	2	2	3	24	0	25	0	9	345
VM03-54TW	0	23.300	-89.517	201	6	2	187	1	25	0	21	9	2	9	0	4	0	1	1	23	0	17	2	1	14	7	3	1	0	20	0	16	0	15	387
VM03-64PC	0-1	27.750	-94.100	327	8	6	114	0	20	0	4	11	2	0	0	0	0	0	0	15	0	45	0	1	45	3	0	0	0	20	0	4	0	0	298
VM03-66TW	0	27.950	-94.200	95	1	5	305	9	21	0	7	3	17	53	0	16	0	0	1	27	0	37	0	4	34	4	2	0	3	16	0	29	0	5	599
VM03-67TW	0	27.250	-94.167	1591	8	4	160	1	11	0	12	6	34	10	1	1	0	0	0	12	0	64	0	1	36	0	5	1	0	28	0	17	0	3	415
VM03-70TW	0	23.517	-95.467	2728	8	3	232	1	16	0	12	4	1	7	1	2	0	0	0	7	0	36	0	3	32	0	0	0	0	27	0	20	0	6	418
VM03-74TW	0	22.817	-92.350	3733	6	2	125	8	24	0	22	11	1	14	4	2	0	0	2	5	0	25	0	2	11	2	0	0	8	21	0	11	0	9	315
VM03-76TW	0	22.583	-91.633	1518	13	0	141	3	28	0	14	7	2	14	0	2	1	0	0	14	0	19	0	1	10	0	1	0	1	17	0	18	0	8	314
VM03-77TW	0	23.200	-91.217	3733	5	4	131	3	27	0	15	7	1	3	0	1	0	0	11	0	29	0	0	24	0	0	0	2	38	0	8	0	3	312	
VM03-78TW	0	23.017	-88.883	155	0	0	136	9	20	0	20	0	0	15	1	9	0	0	0	16	0	15	0	2	7	2	0	5	6	17	0	16	1	3	300
VM03-79TW	0	23.500	-88.383	245	5	1	177	6	37	0	22	8	2	9	0	13	0	0	1	25	0	20	0	1	18	5	0	4	3	16	0	22	0	11	406
VM03-81TW	1-3	27.633	-87.900	1123	1	3	105	2	10	0	10	9	1	10	0	0	0	0	0	26	0	42	0	0	27	3	0	0	0	33	0	15	0	3	300
VM03-85TW	0	28.200	-92.983	64	0	1	248	6	21	0	10	6	14	27	0	5	0	0	0	18	0	29	0	0	23	1	0	1	0	16	0	10	0	0	436
VM03-86TW	0	28.117	-93.067	77	2	2	169	8	12	0	5	3	11	12	0	2	0	0	1	25	0	23	0	1	18	0	0	0	0	20	0	7	1	2	324
VM03-87TW	0	28.100	-93.267	77	4	0	241	18	7	0	20	9	26	0	0	9	0	0	0	37	0	32	0	0	32	0	0	1	0	13	0	14	0	0	463
VM03-92TW	0	27.333	-96.017	455	1	4	147	4	6	0	4	1	19	5	0	2	2	0	0	21	0	83	0	2	43	1	1	0	1	20	0	0	0	12	379
VM03-96TW	0	26.883	-92.500	1789	6	0	113	2	11	0	17	19	8	9	2	2	2	0	0	10	0	37	0	0	23	0	0	0	5	30	0	9	0	2	307
VM03-96PC	0	26.883	-92.500	1789	12	1	107	0	22	0	7	15	1	1	0	0	0	0	0	16	0	33	0	0	31	2	0	0	0	36	0	4	0	0	288
VM03-97TW	0	26.967	-91.400	1961	10	6	230	3	15	0	19	33	12	14	2	5	0	0	1	30	0	66	0	1	40	2	0	0	4	47	0	29	0	1	570
VM03-98TW	3-4	25.367	-89.817	3424	7	2	133	2	49	0	11	7	5	8	0	0	0	0	0	28	0	11	0	0	12	6	0	0	1	23	1	10	0	2	318
VM03-99TW	0	26.217	-90.067	3157	4	0	147	2	41	0	14	12	3	4	0	4	0	0	1	20	0	25	0	0	9	3	0	0	1	21	1	20	0	1	333
VM03-100TW	0	27.250	-89.067	2034	3	1	110	5	30	1	8	5	6	6	0	5	1	0	3	23	0	10	0	0	19	3	1	2	0	12	0	35	0	7	296
VM03-101TW	0	27.783	-89.283	1463	7	4	74	1	10	0	8	9	4	6	0	0	1	0	0	15	0	27	0	0	22	0	1	0	1	41	1	14	0	1	247
VM03-103TW	0	26.950	-91.767	1771	7	5	172	5	21	1	18	13	9	19	1	2	0	0	0	18	0	39	0	0	39	2	0	0	3	38	0	28	0	7	447
VM03-104TW	0	26.783	-91.683	2074	12	9	152	6	12	0	34	13	5	16	1	0	0	0	0	18	0	48	0	0	21	3	0	0	10	32	0	23	0	1	416
VM03-106TW	0	23.833	-92.267	3740	2	2	157	10	32	0	14	8	1	14	0	1	0	0	0	8	0	28	0	4	24	1	0	0	1	35	0	27	0	2	371
VM03-107TW	0	23.533	-93.167	3748	6	1																													

Appendix 1. Gulf of Mexico core-top planktic foraminifer census data.

Core	Depth (cm)	LAT	LON	Depth (m)	<i>O. universa</i>	<i>Gs. conglobatus</i>	<i>Gs. ruber</i> (total)	<i>Gs. tenellus</i>	<i>Gs. sacculifer</i> (total)	<i>S. deliscens</i>	<i>Ga. aequilateralis</i>	<i>G. calida</i>	<i>G. bulloides</i>	<i>G. faconensis</i>	<i>G. digitata</i>	<i>G. rubescens</i>	<i>T. quinqueloba</i>	<i>N. pachyderma</i> (left)	<i>N. pachyderma</i> (right)	<i>N. dutertrei</i>	<i>G. hexagona</i>	<i>P. obliquiloculata</i>	<i>Gl. inflata</i>	<i>Gl. truncatulinoides</i> (left)	<i>Gl. truncatulinoides</i> (right)	<i>Gl. crassaformis</i>	<i>P - D</i> intergrade	<i>Gl. hirsuta</i>	<i>Gl. scitula</i>	<i>Gl. menardi</i> complex (total)	<i>C. nitida</i>	<i>Gt. glutinata</i>	<i>H. pelagica</i>	Other	Total	
VM03-131TW	0	23.233	-89.883	230	4	0	167	4	33	0	23	3	3	18	0	7	0	0	0	17	0	12	9	1	15	4	0	0	2	12	0	22	0	6	362	
VM03-136TW	0	23.283	-86.133	3424	12	2	138	0	48	1	35	11	0	3	0	3	0	0	0	9	0	8	0	0	2	0	0	0	1	35	2	33	0	5	348	
VM03-139TW	1-2	24.200	-83.650	1103	4	0	157	0	53	0	35	13	1	4	1	7	3	0	0	17	0	9	0	0	6	0	0	0	4	23	0	45	1	7	390	
VM03-141TW	0	23.667	-83.300	1577	13	2	129	2	62	0	16	1	0	5	2	4	0	0	0	23	0	15	0	2	4	3	0	0	0	23	1	17	0	1	325	
VM03-142TW	1-2	23.533	-83.200	1785	11	1	146	1	60	0	39	6	1	1	1	3	2	0	0	22	0	15	0	0	6	2	0	0	5	17	1	27	3	4	374	
VM03-145TW	2-3	24.133	-81.817	658	8	1	155	2	41	0	20	7	4	11	1	10	1	0	2	28	0	9	0	0	5	0	0	0	4	14	0	29	0	8	360	
VM03-146TW	0	23.850	-80.867	1206	8	0	125	3	105	0	36	2	1	1	0	5	0	0	0	11	0	6	0	0	1	1	0	0	0	22	0	37	1	1	366	
VM21-14TW	0	23.917	-84.483	2942	18	0	145	3	38	0	14	0	0	5	0	6	2	0	0	17	0	4	2	0	6	7	0	0	2	10	1	29	0	4	313	
VM21-15TW	0	24.683	-84.650	3411	6	0	131	2	46	0	28	3	0	11	2	14	1	0	0	14	0	9	0	0	7	1	0	0	1	19	1	29	0	2	327	
VM21-17TW	0	20.400	-85.283	4557	8	0	157	2	32	0	42	5	0	3	0	6	0	0	0	3	0	4	0	0	1	1	0	0	2	20	3	66	1	4	360	
VM24-21TW	0	24.383	-90.100	3654	11	6	135	1	30	0	23	5	2	4	1	1	0	0	0	20	0	19	0	1	13	1	0	0	2	24	0	12	0	1	312	
VM24-22TW	0	23.583	-92.133	3738	15	1	134	3	28	0	18	9	2	12	1	2	0	0	0	19	0	25	0	0	20	2	0	0	1	37	0	12	0	0	341	
VM24-22PC	3-4	23.583	-92.133	3738	26	5	123	0	40	1	4	13	0	0	1	0	0	0	0	10	0	36	0	1	23	1	0	0	0	17	1	5	0	0	307	
VM24-23TW	0	21.450	-85.700	2078	13	0	121	2	56	2	49	4	1	1	0	8	0	0	0	11	0	4	0	0	2	0	0	0	1	19	2	49	0	2	347	
RC09-17TW	0	28.000	-88.983	1265	1	2	101	0	13	0	11	4	1	13	0	2	3	0	0	26	0	30	0	1	31	1	0	0	0	35	1	17	0	0	293	
RC09-17PC	4-5	28.000	-88.983	1265	4	10	84	0	13	1	6	11	2	0	0	0	0	0	0	44	0	15	0	2	44	5	1	0	0	53	0	5	0	0	300	
RC09-18TW	0	25.283	-91.367	3374	9	2	157	2	22	0	16	10	1	10	2	5	0	0	0	23	0	20	0	1	20	1	0	1	0	0	33	0	24	0	1	360
RC09-22TW	0	26.317	-94.350	1955	8	4	154	4	7	0	12	6	4	28	0	2	1	0	1	12	0	50	0	1	30	0	0	0	1	22	0	32	0	5	384	
RC09-24TW	0	25.683	-90.733	3424	4	0	148	2	39	0	11	6	1	11	0	3	1	0	0	14	0	28	0	1	17	2	0	0	2	23	0	17	0	0	330	
RC09-25TW	0	24.783	-91.450	3576	6	1	170	3	44	0	21	5	0	14	0	4	2	0	0	22	0	26	0	3	11	6	0	0	2	26	0	47	0	5	418	
RC09-28TW	0	23.450	-92.483	3629	7	3	176	9	41	0	15	9	1	15	0	12	0	0	0	22	0	22	0	2	22	3	0	1	2	27	0	35	0	1	425	
RC09-29TW	0	24.850	-90.950	3605	13	6	162	1	44	1	15	9	1	8	0	3	1	0	0	14	0	29	0	0	16	0	0	0	2	33	0	18	0	6	382	
RC09-30TW	0	25.050	-88.983	3477	10	0	158	1	32	0	24	3	0	6	1	1	0	0	0	24	0	21	0	0	15	2	0	1	6	19	1	23	0	3	351	
RC09-32TW	0	20.533	-84.183	4243	9	3	148	3	59	0	30	3	0	1	1	5	0	0	0	5	0	3	0	1	5	1	0	0	0	9	4	35	0	1	326	
RC10-262TW	0	23.433	-86.300	1767	7	1	138	1	97	0	15	2	0	9	0	10	1	0	1	21	0	5	0	0	3	4	0	0	2	30	2	20	0	1	370	
RC10-262PC	2-3	23.433	-86.300	1767	12	3	110	0	80	1	4	14	1	0	0	0	0	0	0	8	0	6	2	1	5	0	1	0	0	28	3	3	0	0	282	
RC10-263TW	0	22.933	-91.600	3742	7	2	155	5	17	0	31	9	1	6	0	1	0	0	15	0	37	0	0	0	24	0	0	0	7	17	0	26	0	1	362	
RC10-264TW	1-2	22.083	-94.833	3464	3	2	181	6	33	1	11	3	3	4	3	2	1	0	1	15	0	17	0	3	18	4	0	0	1	28	1	27	0	2	370	
RC10-265TW	0	21.717	-95.833	2521	14	1	167	4	16	0	12	7	4	7	2	6	2	0	0	9	0	19	0	0	29	0	0	0	4	29	0	14	0	2	348	
RC10-265PC	1-2	21.717	-95.833	2521	17	0	161	0	24	0	2	14	1	0	0	0	0	0	0	11	0	31	0	0	22	1	0	0	0	28	0	5	0	0	317	
RC10-266TW	0	22.617	-96.333	2371	10	1	152	4	21	0	21	5	2	12	1	5	0	0	0	9	0	39	0	1	23	0	0	0	3	13	1	19	0	8	350	
RC10-267TW	0	24.050	-94.383	3749	6	3	135	0	33	0	12	5	2	15	1	0	0	0	0	8	0	34	0	1	30	1	0	0	0	31	0	15	0	1	333	
RC10-268TW	0	24.900	-92.467	3625	2	1	151	5	10	0	12	3	2	8	1	1	0	0	0	15	0	29	0	1	32	4	0	0	0	24	0	13	0	3	317	
RC10-268TW	1-2	24.900	-92.467	3625	8	6	128	0	31	0	8	10	1	0	0	0	0	0	0	10	0	32	0	1	36	4	1	0	0	43	0	2	0	0	321	
RC10-269TW	0	26.300	-89.400	2979	6	2	116	1	24	0	25	4	0	8	2	3	4	0	0	13	0	10	0	0	11	1	0	1	2	22	1	34	0	2	292	
RC10-270TW	0	25.183	-84.750	2816	12	2	140	2	62	0	30	3	0	3	0	4	1	0	0	30	0	15	6	1	14	3	0	0	2	26	3	15	0	2	376	
RC12-05TW	0	25.950	-84.867	2946	13	2	138	2	21	0	48	4	2	14	1	6	0	0	0	9	0	14	1	0	7	2	0	0	6	21	0	34	0	6	351	
RC12-05TW	5-6	25.950	-84.867	2946	12	4	113	1	39	0	21	19	1	2	1	0	0	0	0	24	0	10	1	0	8	1	0	1	0	19	0	11	0	0	288	
RC12-05PC	2-3	25.950	-84.867	2946	17	3	133	1	47	0	24	16	2	2	1	0	0	0	0	23	0	7	1	1	12	3	1	0	1	16	1	7	0	1	320	
RC12-07TW	0	27.150	-91.550	1942	3	5	120	0	11	0	15	6	3	11	0	0	0	0	0	13	0	25	0	1	37	0	0	0	1	52	3	14	0	0	320	
RC12-07PC	2-3	27.150	-91.550	1942	13	5	118	0	16	1	4	10	3	0	0	0	0	1	0	25	0	36	0	1	32	2	0	0	0	37	0	9	0	0	313	
RC12-09TW	0	25.783	-94.233	3263	8	2	153	1	10	0	12	6	2	12	0	1	1	0	0	5	0	37	0	0	36	2	0	0	2	31	0	18	0	3	342	
RC12-09PC	1-2	25.783	-94.233	3263	5	0	111	0	27	0	3	3	6	0	2	0	0	0	0	13	0	59	0	2	46	0	0	0	0	25	0	2	0	0	304	
RC12-09PC	2-3	25.783	-94.233	3263	8	7	126	0	18	0	2	16	1	2	0	0	0	0	0	17	0	39	0	1	41	0	1	0	0	31	0	3	0	0	313	
RC12-10TW	0	23.400	-95.533	3054	12	9	160	1	14	0	10	7	1	6	1	3	0	0	0	6	0	33	0	1	33	0	0	1	1	14	2	14	0	4	333	
RC12-10PC	0-2	23.400	-95.533	3054	21	5	186	0	19	0	3	16	6	1	0	0	0	0	0	14	0	23	0	0	36	1	0	1	0	20	0	6	0	0	358	
RC12-11TW	1-2	22.400	-95.550	3072	8	6	141	0	21	0	7	18	2	0	0	0	0	0	0	11	0	31	0	0	33	0	1	0	0	26	0	3	0	0	308	

Appendix 1. Gulf of Mexico core-top planktic foraminifer census data.

Core	Depth (cm)	LAT	LON	Depth (m)	<i>O. universa</i>	<i>Gs. conglobatus</i>	<i>Gs. ruber (total)</i>	<i>Gs. tenellus</i>	<i>Gs. sacculifer (total)</i>	<i>S. dehiscens</i>	<i>Ga. aequilateralis</i>	<i>G. calida</i>	<i>G. bulloides</i>	<i>G. falconensis</i>	<i>G. digitata</i>	<i>G. rubescens</i>	<i>T. quinqueloba</i>	<i>N. pachyderma (left)</i>	<i>N. pachyderma (right)</i>	<i>N. dutertrei</i>	<i>G. hexagona</i>	<i>P. obliquiloculata</i>	<i>Gl. inflata</i>	<i>Gl. truncatulinoides (left)</i>	<i>Gl. truncatulinoides (right)</i>	<i>Gl. crassaformis</i>	<i>P - D intergrade</i>	<i>Gl. hirsuta</i>	<i>Gl. scitula</i>	<i>Gl. menardii complex (total)</i>	<i>C. nitida</i>	<i>Gt. glutinata</i>	<i>H. pelagica</i>	Other	Total
TR126-08TW	0	21.797	-95.868	2690	13	2	258	14	25	0	38	0	12	8	2	11	2	0	1	30	0	23	0	2	0	2	0	0	2	26	0	41	0	0	512
TR126-11TW	0	21.538	-96.663	1350	6	1	187	0	13	0	10	0	6	7	2	1	0	0	0	6	0	17	0	1	0	1	0	0	0	29	0	9	0	0	296
TR126-11ATW	0	21.557	-96.707	1350	6	3	282	5	14	0	27	0	19	5	1	3	1	0	0	11	0	35	0	2	0	1	0	0	0	30	0	14	0	0	459
TR126-12TW	0	21.468	-96.845	965	9	5	183	1	10	0	32	0	13	9	1	3	4	0	0	11	0	19	0	0	0	1	0	0	1	17	0	19	0	0	338
TR126-13TW	0	21.603	-96.923	560	3	2	132	3	7	0	14	0	8	10	0	1	0	0	0	17	0	24	0	0	0	0	0	0	0	5	0	18	0	0	244
TR126-14TW	0	21.832	-96.970	1290	10	7	260	2	12	0	32	0	20	14	1	3	0	0	0	36	0	44	0	10	0	0	0	1	0	26	0	24	0	0	502
TR126-15TW	0	21.162	-96.608	1030	8	2	159	5	12	0	22	0	10	7	1	1	1	0	0	19	0	20	0	0	0	2	0	1	6	20	0	12	0	0	308
TR126-16TW	0	21.007	-96.268	1550	9	1	143	8	18	0	25	0	6	9	0	5	1	0	0	13	0	10	0	0	0	2	0	0	0	19	0	32	0	0	301
TR126-17TW	0	20.848	-96.022	1950	6	2	192	7	18	0	36	0	4	12	2	8	2	0	1	30	0	26	0	1	0	5	0	1	0	17	0	30	0	0	400
TR126-18TW	0	20.432	-96.142	1605	14	3	193	2	23	0	26	0	11	10	2	11	1	0	2	16	0	17	0	2	0	6	0	0	0	22	0	16	0	0	377
TR126-19TW	0	19.975	-96.217	710	12	2	153	6	13	0	22	0	9	6	1	4	0	0	0	15	0	12	0	0	0	1	0	0	0	24	0	16	0	0	296
TR126-20TW	0	20.075	-96.133	1315	4	0	199	6	22	0	25	0	9	14	0	7	0	0	0	11	0	15	0	0	0	3	0	0	0	28	0	24	0	0	367
TR126-21TW	0	20.182	-96.005	1920	5	2	149	5	17	0	41	0	15	11	1	0	1	0	2	12	0	15	0	1	0	2	0	0	0	18	0	22	0	0	319
TR126-22TW	0	20.333	-95.862	2130	8	0	165	5	19	0	24	0	16	4	2	3	1	0	0	17	0	12	0	1	0	1	0	0	0	22	0	15	0	0	315
TR126-23TW	0	20.490	-95.623	2410	4	0	153	1	9	0	19	0	7	5	0	3	0	0	0	6	0	21	0	0	0	0	0	0	0	21	0	9	0	0	258
TR126-24TW	0	20.623	-95.452	2550	12	2	173	3	39	0	22	0	8	9	3	7	1	0	0	26	0	11	0	0	0	2	0	0	0	16	0	17	0	0	351
TR126-25TW	0	20.792	-95.267	2760	10	2	174	11	43	1	39	1	4	14	0	5	0	0	4	41	0	4	0	3	0	6	0	0	0	11	0	25	0	0	398
TR126-26TW	0	20.933	-95.077	3075	4	2	208	6	19	0	37	0	4	12	0	3	0	0	0	19	0	20	0	0	0	1	0	1	0	23	0	22	0	0	381
TR126-26ATW	0	20.937	-95.083	3050	13	1	225	6	23	0	23	0	4	10	2	6	2	0	0	20	0	21	0	0	0	2	0	0	0	29	0	27	0	0	414
TR126-27TW	0	21.140	-94.937	3240	5	2	276	8	47	1	20	0	6	5	1	2	2	0	0	33	0	21	0	1	0	2	0	1	0	26	0	28	0	0	487
TR126-28TW	0	21.247	-94.437	3350	5	3	164	3	17	0	15	0	9	2	1	5	4	0	1	15	0	14	0	0	0	3	0	1	1	12	0	20	0	0	295
TR126-30TW	0	21.365	-93.537	3040	5	0	297	14	47	0	29	0	4	14	5	7	1	0	0	49	0	11	0	0	0	2	0	0	0	15	0	22	0	0	522
TR126-31TW	0	20.945	-93.315	1970	12	0	156	6	22	0	20	0	6	5	0	8	0	0	2	15	0	9	0	0	0	1	0	0	1	11	0	18	0	0	292
TR126-33TW	0	20.258	-93.235	1450	5	0	216	14	42	2	17	0	5	5	2	19	2	0	0	34	0	13	0	3	0	8	0	0	0	22	0	22	0	0	431
TR126-34TW	0	19.972	-93.265	1250	9	0	213	5	16	0	17	0	13	6	1	5	2	0	0	11	0	13	0	0	0	2	0	1	1	20	0	10	0	0	345
TR126-35TW	0	19.548	-93.270	610	3	2	271	5	25	0	12	0	16	5	1	1	0	0	0	16	0	6	0	1	0	1	0	0	0	12	0	10	0	0	387
TR126-37TW	0	19.767	-93.950	1360	7	3	159	5	8	0	14	0	18	11	0	2	3	0	0	14	0	16	0	2	0	1	0	0	0	20	0	15	0	0	298
TR126-38TW	0	19.807	-94.230	1650	9	0	275	0	19	0	40	0	24	4	3	4	1	0	0	27	0	35	0	0	0	0	0	0	4	28	0	16	0	0	489
TR126-39TW	0	19.415	-94.440	1500	7	3	166	1	30	0	15	0	27	8	6	6	0	0	0	31	0	29	0	0	0	1	0	0	1	39	0	10	0	0	380
GY94H002-GC02	1-3	27.815	-94.006	210	5	3	123	3	2	0	9	15	28	8	0	1	0	0	0	27	0	34	0	1	53	3	0	0	0	10	0	21	0	4	350
GY94H008-GC08	1-3	27.920	-92.625	195	8	4	129	6	8	0	22	16	34	18	2	1	0	0	0	42	0	50	0	0	36	4	0	0	0	7	0	23	1	3	414
GY94H017-GC16	1-3	28.049	-90.646	165	5	8	122	0	11	0	38	11	18	5	1	0	1	0	1	35	0	32	0	2	40	7	0	0	0	8	0	4	0	2	351
GY94H018-GC17	1-3	27.660	-90.500	906	20	6	145	0	42	0	26	11	10	2	2	0	0	0	0	44	0	63	0	0	53	12	0	0	0	49	0	11	0	1	497
GY94H022-BX22	1-3	28.080	-90.500	144	4	2	71	0	42	1	15	4	1	0	0	0	0	0	0	68	0	36	0	0	31	3	0	0	0	44	0	0	0	0	322
GY94H023-GC23	1-3	28.180	-90.500	98	4	1	115	0	15	0	9	12	38	11	0	0	0	0	0	25	0	16	0	1	24	1	0	0	0	9	0	24	0	2	307
GY94H025-BX25	1-3	28.356	-90.508	48	1	1	177	11	14	0	6	6	21	18	0	0	0	0	0	28	0	6	0	0	9	0	0	0	1	4	0	12	0	4	319
GY94H039-GC36	1-3	28.633	-92.003	38	1	0	159	2	7	0	1	10	15	13	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6	0	2	220	
GY94H041-GC37	1-3	28.450	-92.002	53	3	0	201	6	5	0	8	8	30	21	0	5	0	0	0	21	0	9	0	0	9	0	0	0	0	3	0	11	0	0	340
GY94H045-BX39	1-3	28.040	-92.000	103	1	4	229	5	20	0	24	3	18	7	0	4	0	0	0	47	0	73	0	0	43	1	0	0	0	20	1	24	0	2	526
GY94H050-GC43	1-3	27.544	-91.994	720	10	7	118	0	23	1	5	14	13	1	1	0	0	0	0	28	0	37	2	1	49	2	0	0	3	31	0	8	0	4	358

Appendix 1. Gulf of Mexico core-top planktic foraminifer census data.

Core	Depth (cm)	LAT	LON	Depth (m)	<i>O. universa</i>	<i>Gs. conglobatus</i>	<i>Gs. ruber (total)</i>	<i>Gs. tenellus</i>	<i>Gs. sacculifer (total)</i>	<i>S. dehiscens</i>	<i>Ga. aequilateralis</i>	<i>G. calida</i>	<i>G. bulloides</i>	<i>G. falconensis</i>	<i>G. digitata</i>	<i>G. rubescens</i>	<i>T. quinqueloba</i>	<i>N. pachyderma (left)</i>	<i>N. pachyderma (right)</i>	<i>N. dutertrei</i>	<i>G. hexagona</i>	<i>P. obliquiloculata</i>	<i>Gl. inflata</i>	<i>Gl. truncatulinoides (left)</i>	<i>Gl. truncatulinoides (right)</i>	<i>Gl. crassaformis</i>	<i>P - D intergrade</i>	<i>Gl. hirsuta</i>	<i>Gl. scitula</i>	<i>Gl. menardii complex (total)</i>	<i>C. nitida</i>	<i>Gt. glutinata</i>	<i>H. pelagica</i>	Other	<i>Total</i>
GY94H051-GC44	1-3	27.460	-93.010	926	2	12	124	0	6	0	5	23	7	0	2	0	0	0	41	0	65	0	0	57	7	1	0	0	24	0	4	0	5	385	
GY94H058-GC50	1-3	28.313	-92.998	53	5	0	212	5	7	0	17	10	17	1	0	3	0	0	18	0	7	0	0	4	0	0	0	1	2	0	8	0	1	318	
GY94H093-GC70	1-3	27.470	94.270	974	10	4	128	0	18	0	17	16	6	2	0	0	0	0	25	0	73	0	0	62	2	0	0	2	32	0	7	0	2	406	
GY94H114-GC81	1-3	27.901	-95.105	105	5	5	159	1	9	0	5	12	18	7	0	0	0	1	23	0	36	0	4	26	0	0	1	0	9	0	11	0	1	333	

Appendix 1. Gulf of Mexico core-top planktic foraminifer census data.

Core	Depth (cm)	LAT	LON	Depth (m)	<i>O. universa</i>	<i>Gs. conglobatus</i>	<i>Gs. ruber (total)</i>	<i>Gs. tenellus</i>	<i>Gs. sacculifer (total)</i>	<i>S. dehiscent</i>	<i>Ga. aequilateralis</i>	<i>G. calida</i>	<i>G. bulloides</i>	<i>G. falconensis</i>	<i>G. digitata</i>	<i>G. rubescens</i>	<i>T. quinqueloba</i>	<i>N. pachyderma (left)</i>	<i>N. pachyderma (right)</i>	<i>N. dutertrei</i>	<i>G. hexagona</i>	<i>P. obliquiloculata</i>	<i>Gl. inflata</i>	<i>Gl. truncatulinoides (left)</i>	<i>Gl. truncatulinoides (right)</i>	<i>Gl. crassaformis</i>	<i>P - D intergrade</i>	<i>Gl. hirsuta</i>	<i>Gl. scitula</i>	<i>Gl. menardii complex (total)</i>	<i>C. nitida</i>	<i>Gt. glutinata</i>	<i>H. pelagica</i>	Other	Total
GY94H121-GC88	1-3	27.528	-95.789	503	0	0	132	0	1	0	0	10	18	2	0	0	0	0	0	33	0	40	0	0	51	5	0	0	0	1	0	7	0	0	300
GY94H136-GC96	1-3	27.186	-96.715	70	4	2	140	12	4	0	3	7	21	12	0	11	0	0	0	21	0	13	0	0	10	0	0	0	0	2	0	27	0	2	291
GY94H141-GC100	1-3	27.100	96.210	428	2	2	120	1	2	0	0	5	18	3	0	0	0	0	0	23	0	42	0	0	40	1	0	0	0	5	0	7	0	1	272
GY97-6PC20	0-1	26.370	-91.920	2040	8	7	144	3	25	0	15	30	10	7	4	0	1	0	0	14	0	40	0	0	45	7	2	0	2	28	0	13	0	3	408
KN159-JPC06	0-1	26.546	-92.218	2630	4	3	102	5	10	0	8	18	16	27	5	1	0	0	0	8	0	23	1	0	14	2	3	0	0	12	0	39	0	1	302
KN159-JPC06TW	0-1	26.546	-92.218	2630	17	0	121	6	26	0	5	13	10	7	3	1	0	0	0	15	0	47	0	0	6	0	1	0	3	26	1	30	0	2	340
MD02-2553	5-6	26.500	-92.300	2666	17	6	96	0	12	0	25	24	2	1	1	0	0	0	0	28	0	50	0	0	24	1	0	0	1	29	0	6	1	1	325