Supplementary Data.—Benthic foraminifera recovered from the Mayo limestone of the Guaracara Limestone Member near Mayo.

Species	OC1-1	OC1-2	OC1-3	OC1-4	OC1-5	OC1-6	OC2-1
?*Dyocibicides* sp.	4	7	2	5	3	3	0
Ammonia sp.	0	0	0	0	0	0	0
Amphistegina sp.	29	14	18	19	15	10	145
Angulogerina occidentalis	10	30	28	43	27	69	0
Asterigerinata dominicana	8	6	15	4	5	1	0
Bolivina plicatella mera	4	19	14	13	11	14	0
Bolivinita rhomboidalis	1	1	0	0	0	0	0
Brizalina pisciformis	0	0	0	0	0	0	0
Brizalina spp.	0	0	0	0	0	0	0
Brizalina striatula	0	0	0	0	0	0	0
Buccella hannai	4	2	3	2	7	0	0
Cassidulina carapitana	0	0	0	0	0	0	0
Cassidulina laevigata	0	0	0	0	0	0	0
Cibicides sp. 1	72	26	22	32	79	77	61
Cibicides sp. 2	0	0	0	1	0	0	0
Cibicides sublobus	0	0	0	0	0	0	0
Cibicidoides pseudoungerianus	0	0	0	2	0	1	0
Coryphostoma limbata	0	0	0	0	0	1	0
Coryphostoma limbata costulata	0	0	0	0	0	0	0
Cymbaloporetta atlantica	0	0	0	0	0	0	0
Dentalina communis	0	0	0	0	0	0	0
Discorbis auberii	0	0	0	0	0	0	6
Discorbis cf. *patelliformis*	0	0	0	0	0	0	1
Discorbis cf. *rosea*	1	5	0	8	0	0	0
Discorbis rosea	0	0	0	0	0	0	3
Discorbis sp. 1	0	0	0	0	0	0	0
Elphidium advenum	0	7	2	7	4	5	2
Elphidium cf. *discoidale*	0	0	5	0	0	0	0
Elphidium dominicense	6	5	6	4	4	5	0
Elphidium nautiloideum	19	16	15	13	26	14	1
Elphidium poeyanum	19	25	30	29	12	6	0

Elphidium sagrum	7	0	4	0	0	0	2
Eponides parantillarum	0	0	0	0	0	0	0
Eponides repandus	0	0	0	0	0	0	1
Eponides sp. A	0	0	0	0	0	0	0
Fissurina sp. 1	1	0	0	5	1	2	0
Fursenkoina pontoni	1	3	8	3	1	3	1
Fursenkoina sp.	0	0	0	0	0	0	0
Glabratella sp.	0	0	0	1	0	0	0
Globocassidulina subglobosa	0	0	0	0	0	0	0
Globulina caribea	0	0	0	0	0	0	0
Gypsina aff. *vesicularis*	0	0	0	0	0	0	2
Hanzawaia americana	5	0	0	1	0	1	6
Hanzawaia ammophila	0	0	0	0	1	0	0
Hanzawaia carstensi	0	0	0	0	0	0	0
Hanzawaia concentrica	0	0	0	0	0	0	0
Lagena hispida	0	0	0	1	3	1	0
Lagena hispidula	1	0	1	2	0	0	0
Lagena laevigata	2	0	0	0	0	0	0
Lagena sp. B	0	0	0	1	0	0	0
Lagena sp.A	1	0	0	0	0	0	0
Lenticulina rotulata	0	0	0	0	0	0	0
Neoconorbina orbicularis	0	1	0	0	0	0	0
Nonion sp.	0	0	0	0	0	0	3
Nonionella basiloba	7	13	11	10	3	0	0
Patellina corrugata	0	0	0	0	0	0	0
Planorbulina mediterranensis	0	2	0	0	2	0	0
Planorbulinella trinitatensis	0	0	0	0	0	0	1
Polymorphina gibba	0	0	0	0	0	0	0
Polymorphina regina	0	0	0	0	0	0	0
Pseudononion grateloupi	0	1	1	1	1	0	1
Pseudononion incisum kernensis	76	99	48	86	60	59	0
Quinqueloculina auberiana	0	0	0	0	0	0	9
Quinqueloculina bosciana	0	0	0	0	1	0	2

Quinqueloculina lamarckiana?	0	0	0	0	1	0	0
Quinqueloculina seminulangulata	0	0	0	0	0	0	0
Quinqueloculina spp.	0	0	0	0	0	0	0
Reussella glabrata	23	18	15	18	21	8	8
Rosalina candeiana	0	0	0	0	0	0	0
Rosalina floridana	0	3	1	1	0	0	0
Rosalina subaraucana	8	4	8	6	11	15	23
Sigmavirgulina tortuosa	4	5	0	3	4	5	1
Sigmoilina cf. *cibaoensis*	0	0	0	0	0	0	1
Siphonaperta sp.	0	0	0	0	0	0	1
Siphonina pulchra	0	0	2	1	1	1	0
Spirillina vivipara	0	0	0	0	0	0	0
Stomatorbina concentrica	0	0	0	0	0	0	0
Textularia cf. *bermudezi*	0	0	0	0	0	0	0
Textularia excavata	0	0	0	0	0	0	0
Triloculina sp. 1	1	0	0	0	0	0	0
Uvigerina subperegrina	1	0	1	0	0	1	0
Valvulineria cf. *mexicana*	5	5	8	9	1	1	0
Valvulineria sp. A	0	0	0	0	0	0	0
N	320	317	270	331	305	303	281
S	27	24	25	30	26	23	22
H	2.47874625	2.5101627	2.74856505	2.63062611	2.43752044	2.20136676	1.67196825
E	0.441715	0.512789	0.624808	0.462749	0.440178	0.392929	0.241938
%P	15	16	12	17	20	26	17

OC2-2	OC2-3	OC2-4	OC2-5	OC2-6	OC3-1	OC3-2	OC3-3	OC3-4	OC3-5
0	0	0	0	2	0	1	1	0	0
1	0	0	0	1	0	0	0	0	0
97	121	63	22	9	19	15	23	14	21
1	0	0	3	0	10	18	22	58	43
0	0	0	0	1	14	18	15	12	14
3	3	1	1	1	22	11	11	16	10
0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0
0	0	5	1	8	2	1	1	0	2
1	0	1	1	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
69	64	75	42	12	20	23	41	62	60
0	4	0	0	0	0	0	0	1	0
0	0	0	0	3	2	3	3	0	1
1	0	0	0	0	0	2	0	0	3
1	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	2	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	5	1	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0
0	0	0	1	3	2	0	3	0	1
0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0
1	0	2	0	0	0	0	3	1	0
0	0	0	0	0	0	0	0	0	0
2	3	10	1	14	1	0	1	0	1
17	11	13	17	54	6	2	8	6	25
1	0	0	0	22	87	55	77	15	58

0	1	2	0	0	2	3	0	1	0
1	0	5	2	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0
0	0	1	0	4	0	1	2	0	1
0	0	1	0	4	4	6	2	0	1
0	0	0	0	0	0	0	1	0	0
0	0	0	1	0	1	0	0	0	1
1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
23	20	21	9	8	2	0	4	2	0
0	0	0	0	0	0	0	0	0	0
0	0	0	30	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0
0	0	0	0	0	1	0	11	0	2
0	0	0	0	11	4	11	0	0	2
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	1	2	0	0	0	0	0	0
0	0	0	2	0	17	6	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	1	0	7	30	23	4	5	11
0	0	0	0	0	0	0	1	0	0
1	1	0	0	0	0	0	0	0	3
3	2	0	23	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0
20	11	15	11	65	42	60	50	18	24
1	0	0	3	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	2	0	0	0	0	0
11	10	18	17	9	27	17	11	56	22
0	0	0	0	0	0	0	0	0	0
0	0	0	0	5	0	0	0	0	0
39	41	43	5	14	4	5	9	6	9
1	0	0	0	0	3	0	0	0	1
0	0	0	5	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
1	0	3	0	2	0	0	0	0	0
0	0	0	1	0	0	1	3	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	3	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	1	1	4	0	0	0	0	1	1
0	0	1	0	0	5	1	1	1	0
0	0	0	0	0	0	0	0	0	0
297	294	284	212	267	328	286	308	275	318
23	15	22	25	29	25	24	25	17	25
2.01248745	1.78	2.19	2.60	2.59	2.52	2.52	2.46	2.16	2.47
0.3253	0.39	0.41	0.54	0.46	0.50	0.52	0.47	0.51	0.47
8	5	7	24	13	10	8	10	16	4

OC3-6	OC4-1	OC4-2	OC4-3	OC4-4	OC4-5	OC4-6	OC4-7	OC4-8
0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0
13	8	14	5	0	17	17	24	37
20	19	10	0	17	4	33	15	0
14	1	4	16	0	0	15	4	8
3	6	3	0	1	1	22	3	1
0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	4	0	0
0	0	0	0	0	0	0	0	0
1	5	2	0	0	0	2	1	0
0	0	1	0	0	2	1	1	0
1	0	0	0	0	0	0	0	0
38	12	30	17	21	45	34	33	36
0	1	0	0	0	0	0	0	0
0	0	24	8	8	13	20	14	15
0	0	3	0	0	1	0	0	2
0	1	0	0	0	1	1	2	1
0	0	0	0	0	0	0	0	1
0	5	6	10	55	4	0	4	19
0	0	0	0	0	0	0	0	1
0	3	3	0	1	1	0	0	2
0	2	1	1	0	1	1	8	4
1	3	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1	1	0	0	4	0	2	0
0	0	0	0	0	0	0	0	0
0	1	1	0	0	3	0	1	0
13	1	4	1	0	5	2	3	0
17	27	36	6	7	27	55	32	18

0	0	2	0	0	2	2	0	0
0	0	0	0	0	0	0	0	0
0	0	2	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0
0	4	3	0	3	3	4	4	6
0	0	0	0	0	0	0	0	0
0	0	1	1	0	7	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0
1	31	19	4	22	6	5	11	13
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	5	7	0	0
3	5	0	0	0	3	0	0	0
0	0	4	0	0	1	1	1	2
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1	0	0	1	0	2	0	0
0	16	12	6	33	11	0	0	19
0	0	0	0	0	0	0	0	0
4	10	4	1	1	10	9	6	2
0	0	0	0	0	0	0	0	0
0	0	0	0	1	4	5	1	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	1	0	0
0	3	0	0	1	1	2	0	0
16	46	59	13	34	41	18	38	23
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
10	34	53	25	24	61	79	60	55
0	7	5	0	0	5	3	12	0
0	10	5	0	0	8	2	3	2
8	17	4	6	26	6	11	20	8
0	1	1	1	0	2	5	3	6
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0
1	5	5	1	1	5	0	1	5
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0
1	0	0	0	0	3	0	2	1
0	0	0	0	0	0	0	0	1
166	288	323	122	257	314	365	312	289
19	32	32	17	18	35	30	31	27
2.42	2.87	2.73	2.41	2.32	2.83	2.67	2.73	2.66
0.59	0.55	0.48	0.66	0.56	0.48	0.48	0.49	0.53
12	25	23	4	4	16	18	13	12