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Supplemental Material

Supplemental Material 1. Playa Tortuguillas

Supplemental Material 2. Piña Norte

Supplemental Material 3. Piña Sur

Supplemental Material 4. Balneario Tommy

Supplemental Material 5. Monasterio Palmas Bellas

Supplemental Material 6. Localities visited in this study, along with the reference number of the sediment samples used in previous paleobiological studies performed in the Panama Paleontology Project (Collins et al., 1996b; Collins and Coates, 1999), collected at these approximate locations.

SM1. Playa Tortuguillas (see Fig. 1 for location)

Trace fossils

Lithology

Major macrofossil groups

SM 2. Piña Norte 1 (see Fig. 1 for location)

SM 3. Piña Sur (see Fig. 1 for location)

SM 4. Balneario Tommy (see Fig. 1 for location)

SM 5. Monasterio Palmas Bellas (see Fig. 1 for location)

SM 6. Localities visited in this study, along with the reference number of the sediment samples used in previous paleobiological studies performed in the Panama Paleontology Project (Collins et al., 1996; Collins & Coates, 1999), collected at these approximate locations.

Locality number	Name	Coordinates	Sediment Samples in Panama Paleontology Project
1	Toro Point	9°22'17.4"N, 79° 57' 14.4"W	1172-1174
2	Playa Tortuguillas	9° 19' 36.1200" N, 80° 0' 13.6080" W	1091
3	Fuerte San Lorenzo	9° 19' 21.4680" N, 80° 0' 13.0320" W	1076, 1088-1090, 1093
4	Piña Norte 1	9° 17' 36.1320" N, 80° 2' 16.0080" W	1649-1651
5	Piña Norte 2	9°17'27"N, 80°02'23"W	" "
6	Piña Sur	9°16'27"N, 080°03'11"W	-
7	Balneario Tommy	9° 15' 19.9440" N, 80° 4' 13.1880" W	1646 – 1647
8	Monasterio Palmas Bellas	9°14'8.52"N, 80° 5'13.78"W	-