PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME
TRACE ELEMENTS INVESTIGATIONS REPORT 625

(200)
T67r
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PLATE I

GEOLOGIC AND TOPOGRAPHIC MAP AND CROSS-SECTIONS OF PARTS OF HILLSBOROUGH, PASCO, AND POLK COUNTIES, FLORIDA. POST-MIDDLE MIOCENE ROCKS REMOVED.

Mapped by W. J. Carr and D. C. Alverson, 1953

5 0 5 10 Miles

Contour interval 40 feet

Note: Most of the area is covered with sand and clay, post-middle Miocene in age. These deposits are shown only where they are more than 10 feet thick.

Vertical exaggeration about 100 times.

From U.S.G.S. base map of Florida with minor modifications. Topography generalized from U.S. Army Map Service and U.S.G.S. quadrangles. Topography north of Tps. 26 sketched from aerial photographs and scattered barometer readings and bench marks. Topography in parts of Tps. 29 and 30, Ranges 21, 22, and 23 sketched from aerial photographs and leveling data.

EXPLANATION

Mhl — Hawthorn formation, Limestone phase (Alafia limestone). Limestone, yellow to white, microcrystalline, chalky, soft, sandy, clayey, massive, locally dolomitic at top; contains sparse sand and clay lenses and phosphate nodules.

Mhsc — Hawthorn formation, Sand and clay phases (Kathleen sand and Lakeland phosphorite). Sand and clay, gray-green to tan, locally orange, iron-stained, medium to fine-grained, locally calcareous, massive to poorly bedded; contains trace to abundant phosphate nodules and local concentrations of aluminum phosphate minerals. In part, at least, residuum of Hawthorn limestone and may also include some residuum of Tampa limestone. Not mapped where it overlies the limestone phase (Alafia limestone) of the Hawthorn formation.

UNCONFORMITY

Mt — Tampa limestone. Limestone, white to gray, sandy, microcrystalline, clayey, locally interbedded with sand and clay, gray-green, locally calcareous, phosphatic, dolomitic, ironstained; contains sparse to abundant mollusks and chert fragments. In Pasco County the formation consists mostly of gray to orange-brown fine-grained sand and clay in part, at least, residual from Tampa limestone.

UNCONFORMITY

Øs — Suwannee limestone. Limestone, white, hard to soft, microcrystalline, trace of sand, locally porous and cherty at top; contains abundant mollusk, foraminifera and bryozoa remains.

UNCONFORMITY

Eo — Ocala limestone. Limestone, white, soft, microcrystalline, trace of sand; contains abundant mollusk, foraminifera, bryozoa, and echinoid remains. Includes Moodys Branch formation.

MIDDLE MIOCENE — LOWER MIOCENE — OLIGOCENE — EOCENE

Contact, concealed, *approximately located*

Fault, approximately located
U, upthrown side; D, downthrown side