

NATURAL LANDMARK SITE EVALUATIONS - GEORGIA

1975

EBENEZER CREEK SWAMP

Effingham County

CX 500050186

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EBENEZER CREEK SWAMP

GENERAL BACKGROUND

Evaluator: John R. Bozeman, Ph.D., Associate Professor of Biology,
Department of Biology, Georgia Southern College, Statesboro,
Georgia 30458. (912) 681-5494.

Theme Source: Survey of Natural Areas of the Atlantic Coastal Plain -
Ecological Themes. Center for Natural Areas, Office of International
and Environmental Programs, Smithsonian Institution. Vols I-II, p.
194-280 (p. 227-229).

Information Sources: Dr. Charles H. Wharton
Department of Biology
Georgia State University
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P. O. Box 307
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Collaborator: Dr. Bill P. Lovejoy, Associate Professor of Biology,
Department of Biology, Georgia Southern College, Statesboro,
Georgia 30458. (912) 681-5497.

Visits: July 9-10, 1975. Float trip July 9; aerial reconnaissance July 10.

Other Names for Site: None for creek swamp. Ebenezer (Creek) Church and
settlement are historical sites of early Salzburger Colony. Historical
Salzburger Museum located at church site, now known as Evangelical Luth-
eran Congregation, c/o Rev. F. R. Helmey, Route 1, Clyo, Georgia 31303.

LOCATION

Political: Georgia, East-central section of Effingham County; East-Southeast
of Springfield.

Directions: East-Southeast from Springfield on State Road # S1131 ca. four
(4) miles to Stillwell Community, South from Stillwell on S953 road ca.

1.5 miles to Ebenezer Creek. Also accessible via Georgia Highway 275 Southeast of Springfield to Ebenezer Landing on the Savannah River. Mouth of Creek just north of landing. Creek accessible by several private roads.

Lat. & Long. Coordinates: 32° 21'-23' North; 81° 11'-14' West.

USGS Quadrangle Reference: Rincon, Georgia and Hardeville NW, S.C., 7.5 minute topographic. Savannah, Georgia, 1:250,000.

SIZE

Acreage: Approximately 2,500 acres, or four (4) square miles. Area approximately 0.4 mile wide and five (5) miles long.

BOUNDARIES

Site recommended extends from State Road S953 on the west boundary to the Savannah River on the east boundary. The 15' elevation line delimits the deep-water swamp boundary of Ebenezer Creek (Map #1).

Maps: Map #1 is a copy of 7.5 minute series (topographic). Map #2 locates area on Effingham County General Highway Map. Map #3 represents a replication of the soil field worksheets for Effingham County, based upon USDA-SCS flight 3-3-1949, sheet nos. BQG-1F-36, 38, and 68. Map #4 represents the land ownership boundaries along Ebenezer Creek, prepared from Tax Office, aerial photographic sheet numbers 6, 18, 19, and 26-28, dated 1968. New property maps, which were unavailable at time of evaluation, are numbers 107, 118, 119, and 128.

OWNERSHIP

Private: (Principal owners with land adjacent to Ebenezer Creek, see Map #4).

<u>Tract</u>	<u>Owner</u>	<u>Total Acreage</u>
1	Mrs. Pauline G. Seckinger, et al.	818
2	Laura Fail	85
2A	Charles Exley	22
8	T. O. Long	1,432
12	J. W. Tebeau Estate	103
13	Lee H. & Wm. Morgan Lancaster	80
14	M. H. Rahn	80
15	Mrs. Mary Hutto	176
16	H. C. Gnann	87
17	Effie C. Williams	98
18	Ola M. Kessler, et al.	80
19	Emma Lancaster	86
20	Carolyn & Allen Kieffer	153
21	Alvin O. Gnann	60
22	Shearouse & Marchman	25
23	James J. & Jose Heagarty	97
24	Olive G. Griffin, et al.	159
25	E. A. Gnann	193
26	Miriam Gnann	86
27	W. S. Gnann	57
28	Cecil Gnann	65
29	A. O. Gnann (Alvin)	217
33	Jack E. Ramsey	260

Maps/Plats-Ownership Boundaries: See Map #4.

CORRESPONDENTS

Principal Owners: The seven (7) largest creek swamp tracts are numbers 1, 8, 12, 20, 24, 29, and 33. Correspondence concerning the registration of tracts should be directed to the following persons:

Tract 1	Mrs. Pauline G. Seckinger Springfield, Ga. 31329
	Charles F. Gnann Route 2 Springfield, Ga. 31329
X Tract 8	Mr. T. O. Long Long Acres Route 1 Rincon, Ga. 31326
X Tract 12	J. W. Tebeau Estate c/o Mr. Troy P. Tebeau Springfield, Ga. 31329
Tract 20	Carolyn & Allen Kieffer Route 1, Box 258 Springfield, Ga. 31329
Tract 24	Mr. Olive G. Griffin 1290 LaVista Rd., N.E. Atlanta, Ga.
X Tract 29	Mr. A. O. (Alvin) Gnann 8 Varnedo Ave. Garden City, Ga. 31408
X Tract 33	Mr. Jack E. Ramsey Route 1, Box 127 Guyton, Ga.

Other Tracts as follows:

X Tract 2	Ms. Laura Fail c/o Gordon F. Fail P. O. Box 132 Rincon, Ga. 31326
Tract 2A	Mr. Charles M. Exley 90 Varnedoe Ave. Garden City, Ga. 31408
Tract 13	Lee H. & William Morgan Lancaster c/o W. K. Lancaster Route 1 Rincon, Ga. 31326

LAND USE AND INTEGRITY

Past & Present Use: The upland soils surrounding Ebenezer Creek are used for row-crop cultivation, pasture and timber production. Very little selective logging has occurred in the deepwater Cypress-Gum forest. Occasional stumps of Bald Cypress were observed on the lower five-mile reach of creek swamp.

Ebenezer Creek Swamp is utilized primarily for recreational fishing and boating. Limited areas have built up week-end cottages. Three such subdivisions occur on the south bank, these are the Half Moon, High Bluff and Fail subdivisions. These subdivisions occur on bluffs overlooking the creek. The majority of the creek swamp is natural and undisturbed.

Future Use: The construction of additional cottages can be anticipated on the north bank. There are three to four high areas with access by private roads on the north side.

THREATS TO THE AREA

Existing: Existing threats to the area are improper solid waste (garbage and trash) disposal and probable seepage of sewage from cottages along the creek bank. Many of the cottages (shacks) are aesthetically displeasing.

Potential: Additional construction as outlined above will distract from the natural beauty of the area. Logging would destroy the aesthetic values of the swamp.

DESCRIPTION OF NATURAL VALUES

General Character: Ebenezer Creek is a black-water coastal stream that drains the northeastern quarter of Effingham County. The upper watershed includes Devils Branch, Runs Branch and Turkey Branch as the principal tributaries. The vegetational cover of the central and upper sections are typical for this type of coastal stream. The lower section of Ebenezer Creek is unique in its physical and biological features. Since the last Pleistocene inundation, Ebenezer Creek has eroded the south or right bank of the Savannah river to form a broad-flattened basin overlying residual clays. This basin is topographically uniform in elevation (15 feet above mean sea level) with the Savannah River floodplain for the last 4-5 miles above its junction with the Savannah River. The Savannah River acts as a "water-dam" or "slack-water-dam" on Ebenezer Creek. Any fluctuations, such as normal winter flooding or tidal backwater, in the water level of the Savannah River directly influences the water level in Ebenezer Creek. The winter flood waters from the Savannah River inundate Ebenezer Creek and raise the water level by 4-5 feet, as indicated by the water-marks on the bases of tree-trunks throughout. Additional sediments of a less acidic nature are transported into Ebenezer Creek from the Savannah River. It is for this reason, and because of an abundant source of seed, that Bald Cypress (Taxodium distichum) and Tupelo Gum dominate the forest cover of the lower Ebenezer Creek Swamp.

Ebenezer Creek meanders through the creek basin forming a series of elongated lakes. Monospecific stands (forests) dominated by Bald Cypress or Tupelo Gum, and mixed stands of both species occur along these

lake perimeters. During the summer months the water color is very darkly stained, reminding the observer of lakes and sloughs in Okefenokee Swamp.

Specific Natural Values: Near climax forests of Bald Cypress-Tupelo Gum with extreme buttressing of stem bases. Extended hydroperiods probably account for the stunted nature of these trees. The creek swamp is believed to be an important spawning area for Striped Bass. Two large specimens (greater than 10') of the American Alligator were observed in the lakes.

Ecological/Geological Type Category:

Vegetative Subthemes & Phases

<u>Subtheme</u>	<u>Phase</u>
E. Cypress-Gum Swamp Forest	a. deepwater (Bald Cypress-Water Tupelo)
P. Aquatic Fauna	a. rare, endangered or unique species of wildlife (American Alligator)
	c. seasonal concentrations (Striped Bass)

SIGNIFICANCE STATEMENT

Location: Savannah River basin in Southeast Georgia. East-central section of Effingham County. Access by state roads at two points.

Vegetation Types/Unique Floral Components: Generally undisturbed section of creek swamp approximately five (5) miles in length. Mature deep-water phase of Cypress-Gum Swamp Forest in unique physical setting. Creek, natural lakes, and swamp forests have very high visual, photographic, and aesthetic values.

Fauna: Lakes and swamp provide habitat for American Alligator, River Otter, and Striped Bass. Birds include Wood Duck, Pileated Woodpecker, Green Heron, Little Blue Heron, White Ibis, and Warblers - Parula, and Prothonotary.

Education/Research: High educational/research potential. Creek suitable for year-around canoeing.

Comparison: This site is the best remaining Cypress-Gum Forest in the Savannah River Basin. The physical relationship and interactions between the river and the creek are unique to this system. The evaluator knows of no other area with these exact qualities.

SIGNIFICANCE SOURCES

Persons Consulted: Dr. Charles H. Wharton
 Department of Biology
 Georgia State University
 33 Gilmer St., SE
 Atlanta, Ga. 30303
 (404) 658-3100 (-2260)

Publications:

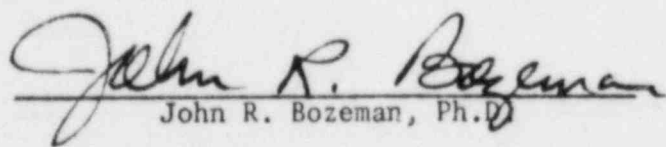
Wharton, C. H. 1975. The Natural Environments of Georgia. A
Special Report to the Department of Natural Resources, Atlanta,
Georgia (unpublished manuscript).

PUBLICITY SENSITIVITY

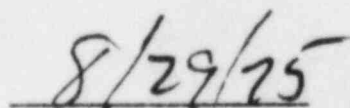
None

RECOMMENDATION

In my opinion, the site appears to be nationally significant and I
recommend that it be designated a natural landmark.


John R. Bozeman, Ph.D.

(sgd) David D. Thompson, Jr.


8/29/75

OCT 6 1975
