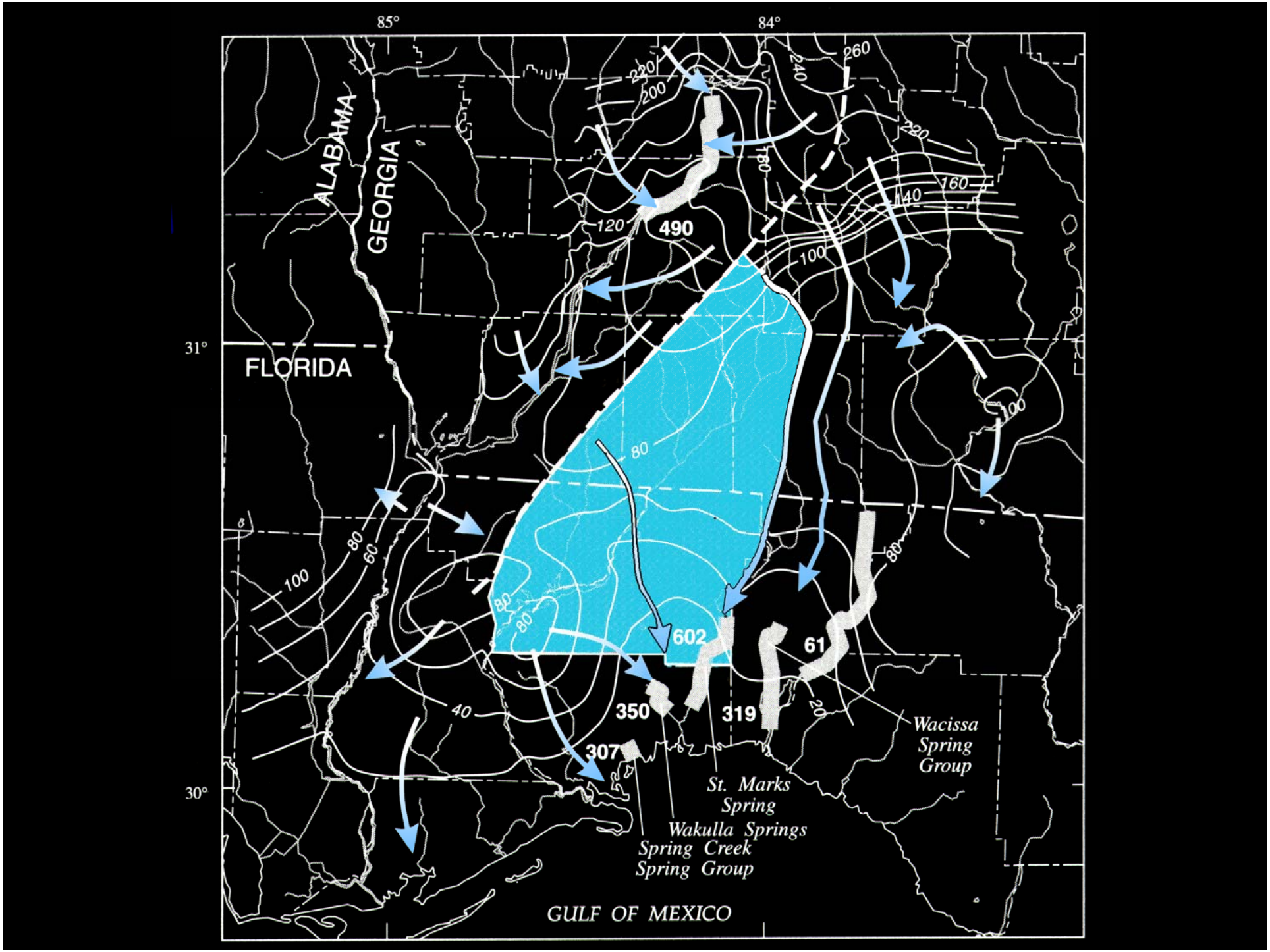
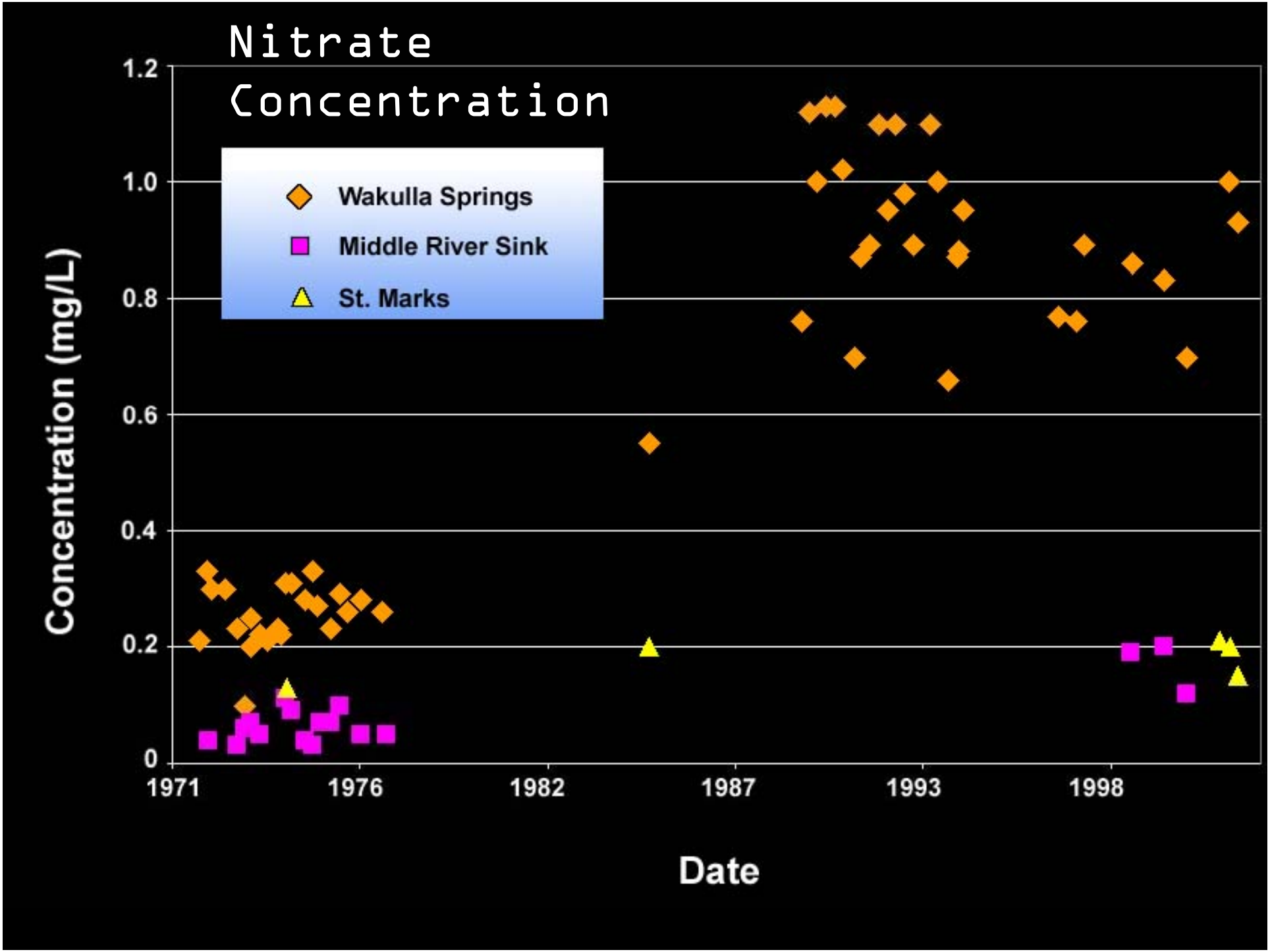
Bridging the Gap between Cavers and Scientists

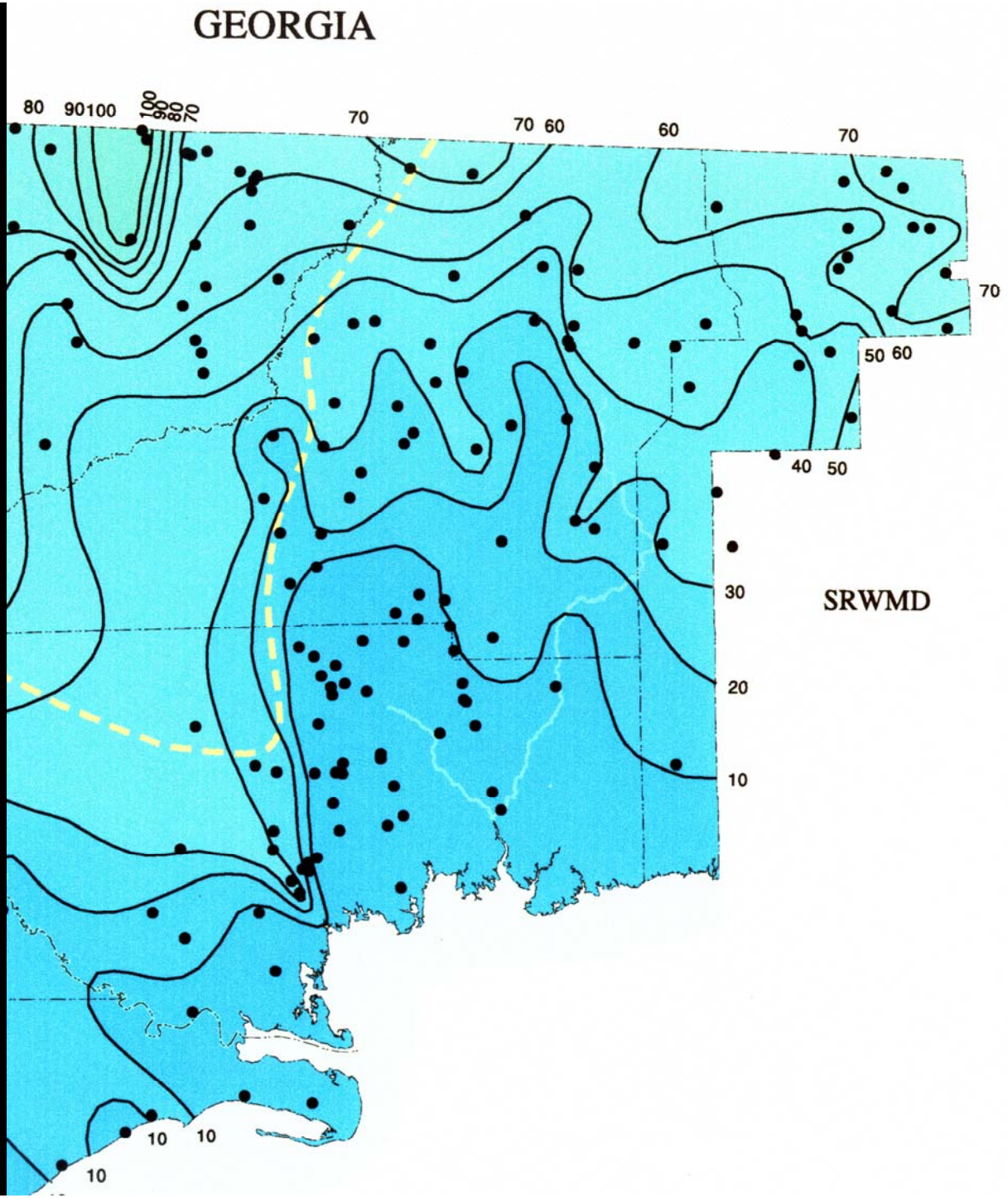
Angela Chelette

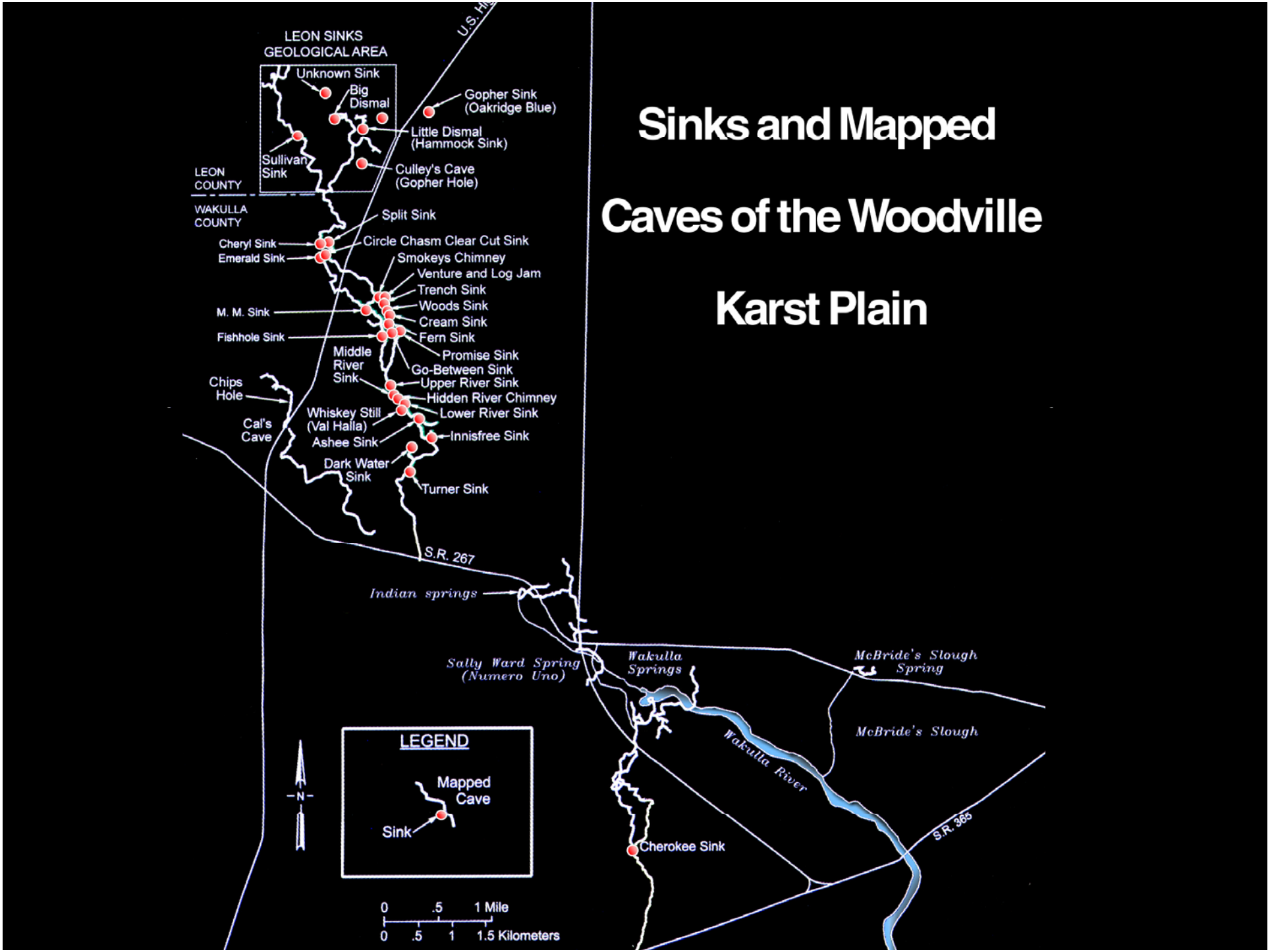
Northwest Florida Water Management District


85°
84°
31°
30°
ALABAMA
GEORGIA
FLORIDA
GULF OF MEXICO
490
602
61
350
319
307
Wacissa Spring Group
St. Marks Spring
Wakulla Springs
Spring Creek Spring Group
220
200
240
260
180
160
140
120
100
80
60
40
20


Nitrate Concentration
Wakulla Springs
Middle River Sink
St. Marks
Concentration (mg/L)
1.2
1.0
0.8
0.6
0.4
0.2
0
1971
1976
1982
1987
1993
1998
Date

1986 Floridan Aquifer Potentio-metric Surface

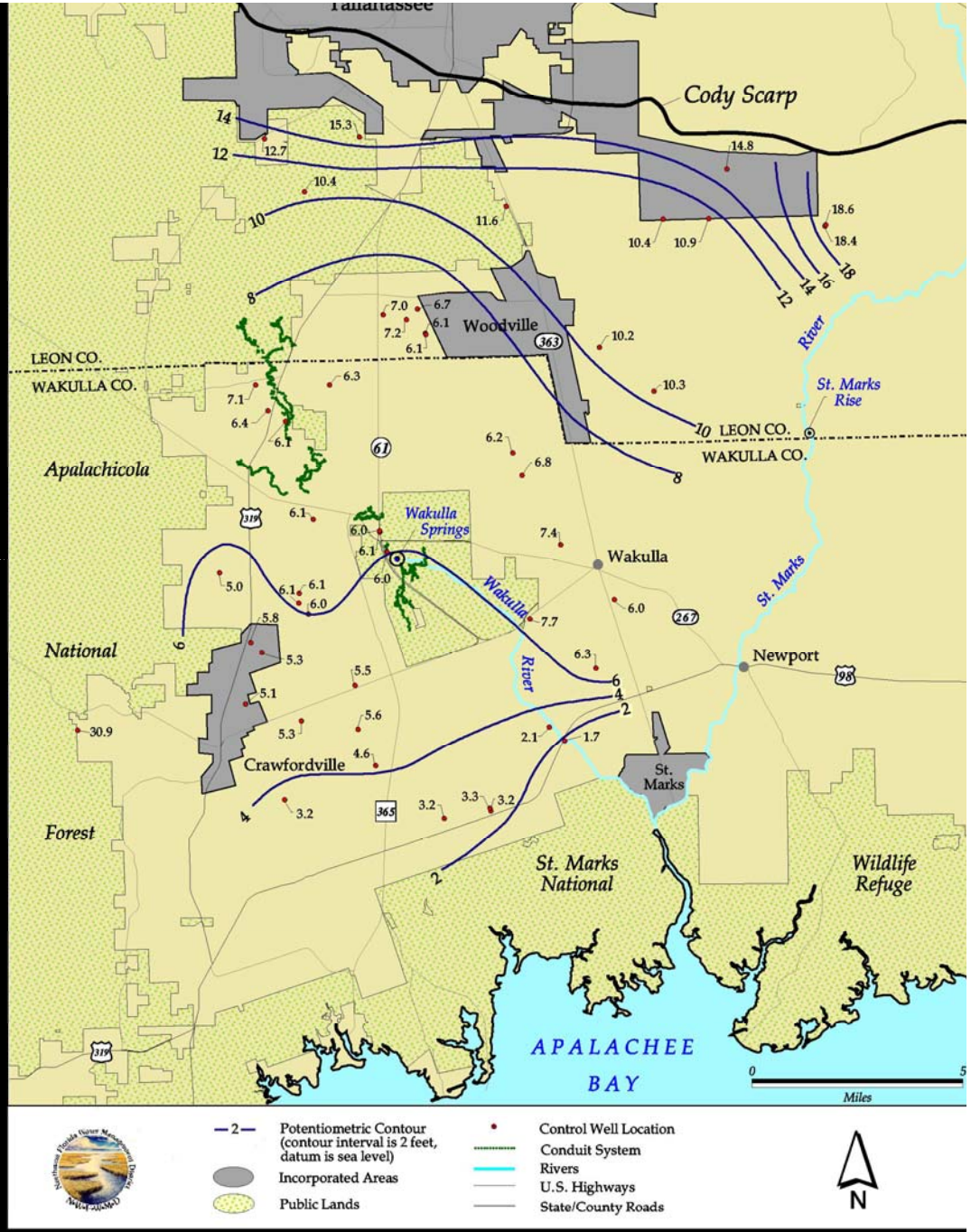



Sinks and Mapped
Caves of the Woodville
Karst Plain
LEON SINKS
GEOLOGICAL AREA
Unknown Sink
Big
Dismal
Gopher Sink
(Oakridge Blue)
Little Dismal
(Hammock Sink)
Sullivan
Sink
Culley's Cave
(Gopher Hole)
LEON
COUNTY
WAKULLA
COUNTY
Split Sink
Cheryl Sink
Emerald Sink
Circle Chasm Clear Cut Sink
Smokeys Chimney
Venture and Log Jam
Trench Sink
Woods Sink
Cream Sink
Fern Sink
M. M. Sink
Fishhole Sink
Promise Sink
Go-Between Sink
Middle
River
Sink
Upper River Sink
Hidden River Chimney
Lower River Sink
Chips
Hole
Cal's
Cave
Whiskey Still
(Val Halla)
Ashee Sink
Innisfree Sink
Dark Water
Sink
Turner Sink
S.R. 267
Indian springs
Sally Ward Spring
(Numero Uno)
Wakulla
Springs
McBride's Slough
Spring
McBride's Slough
Wakulla River
S.R. 365
Cherokee Sink
LEGEND
Mapped
Cave
Sink
N
0 .5 1 Mile
0 .5 1 1.5 Kilometers

Floridan Aquifer Potentio-metric Surface

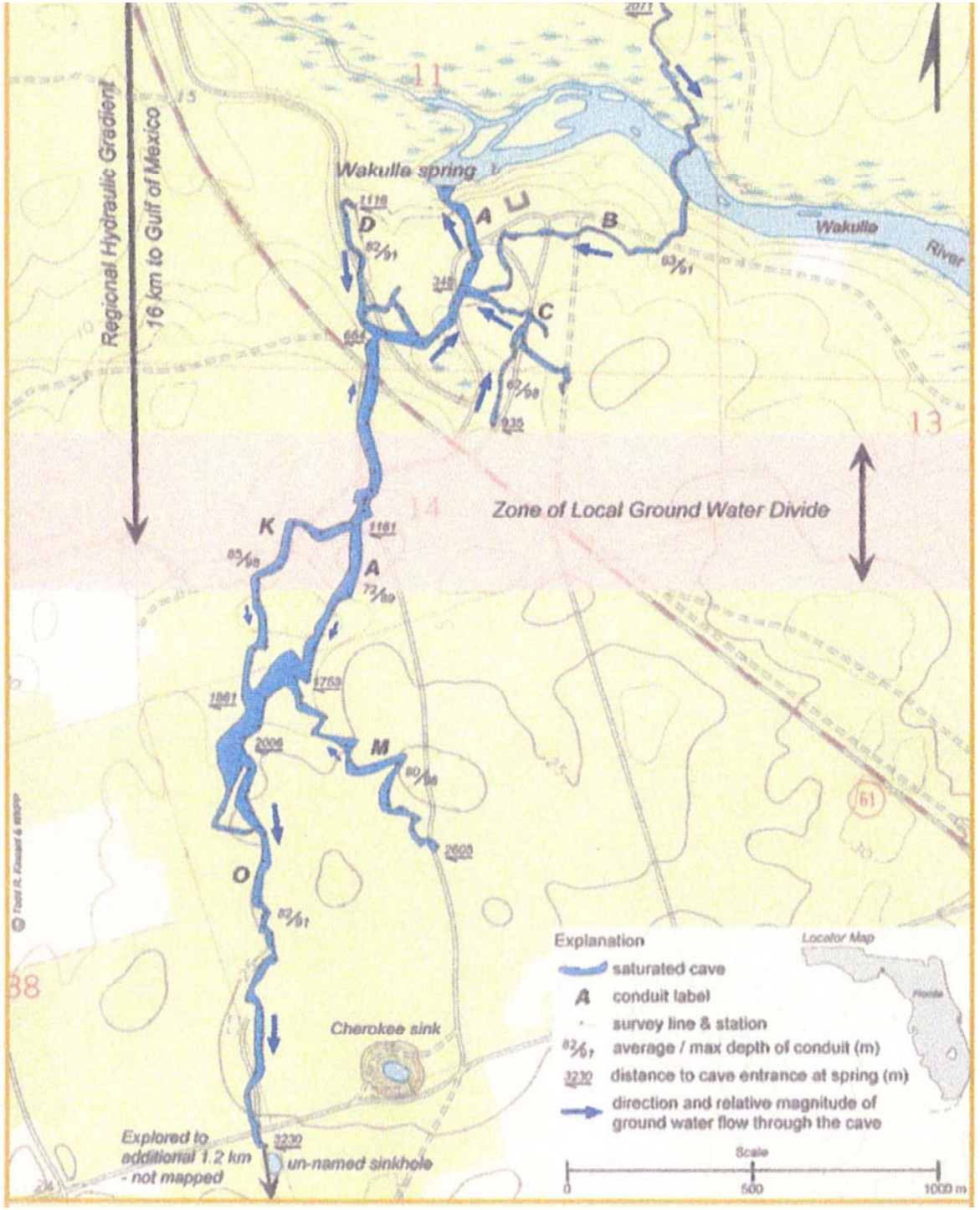
Southern Leon and Wakulla Counties

March 2000

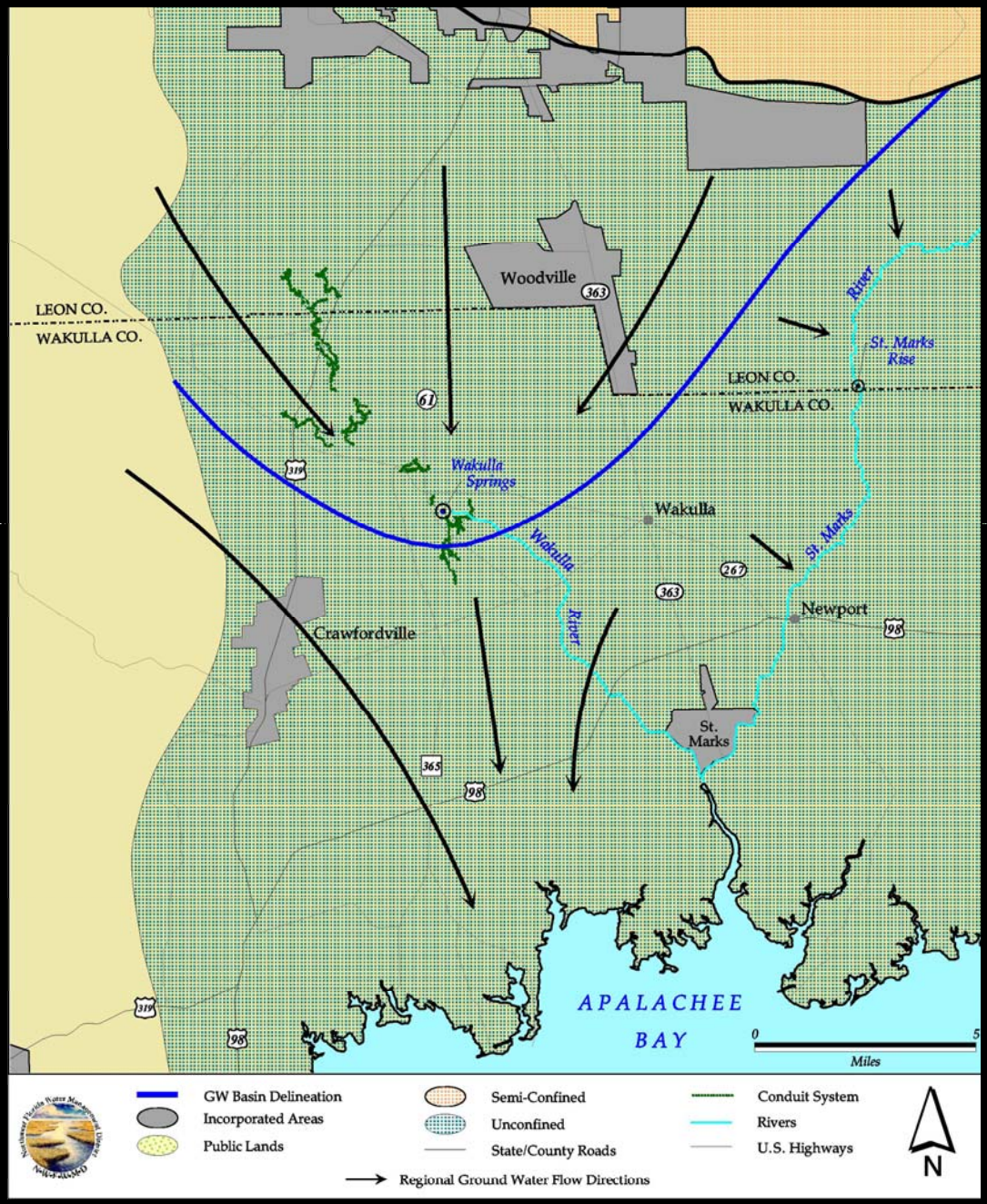


Zone of Local Ground Water Divide

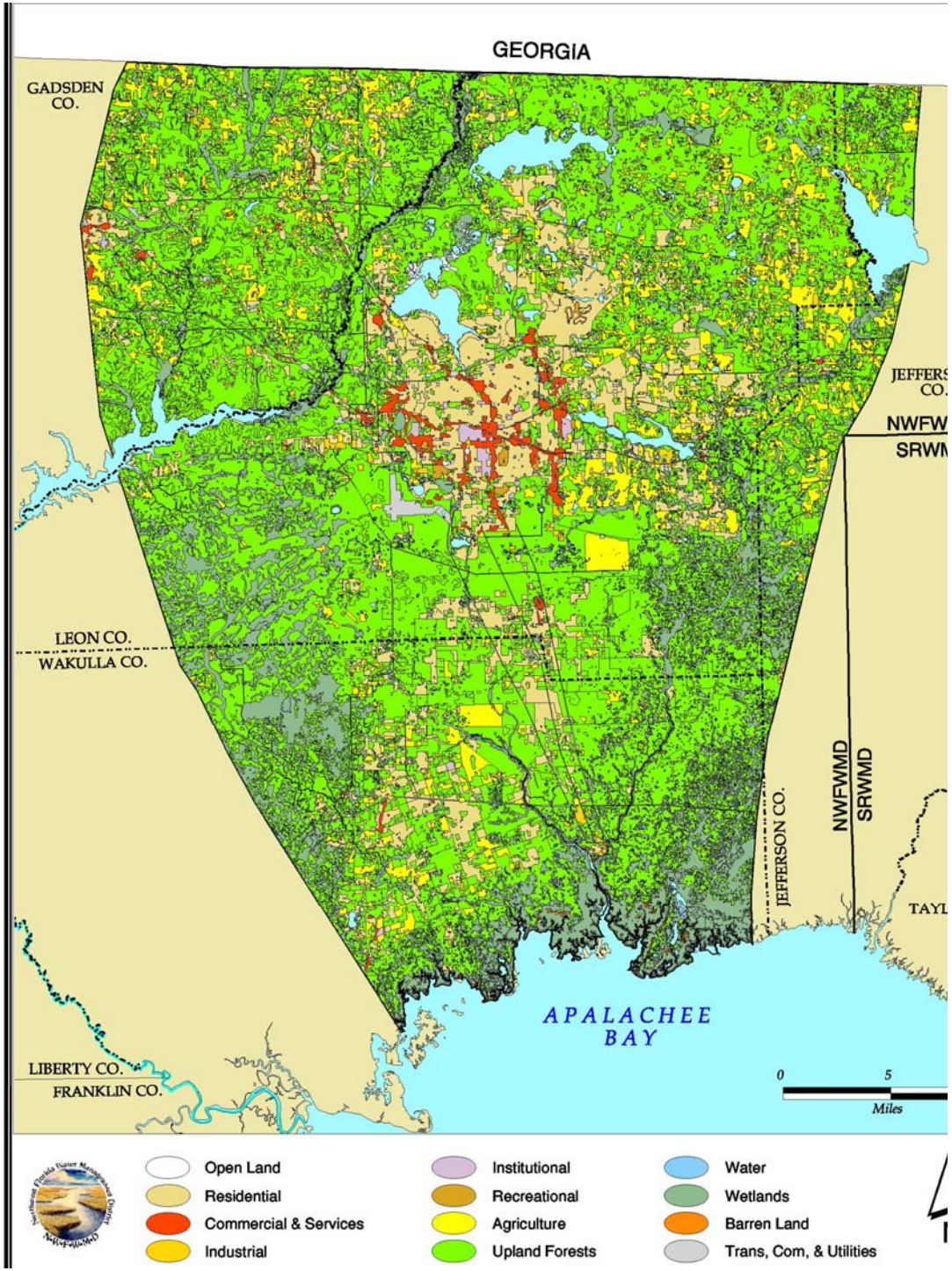
Chris Werner,



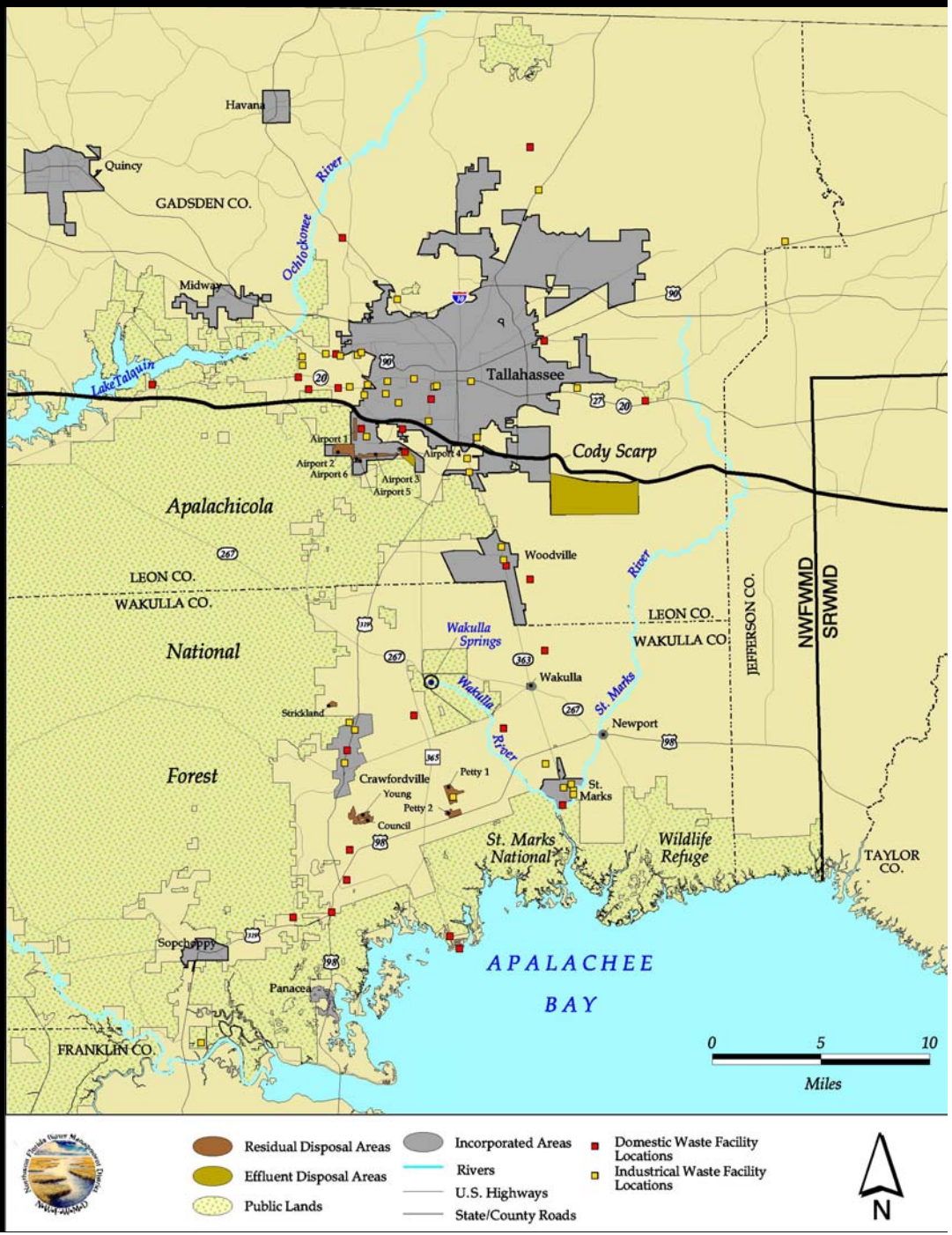
Ground Water Flow Directions



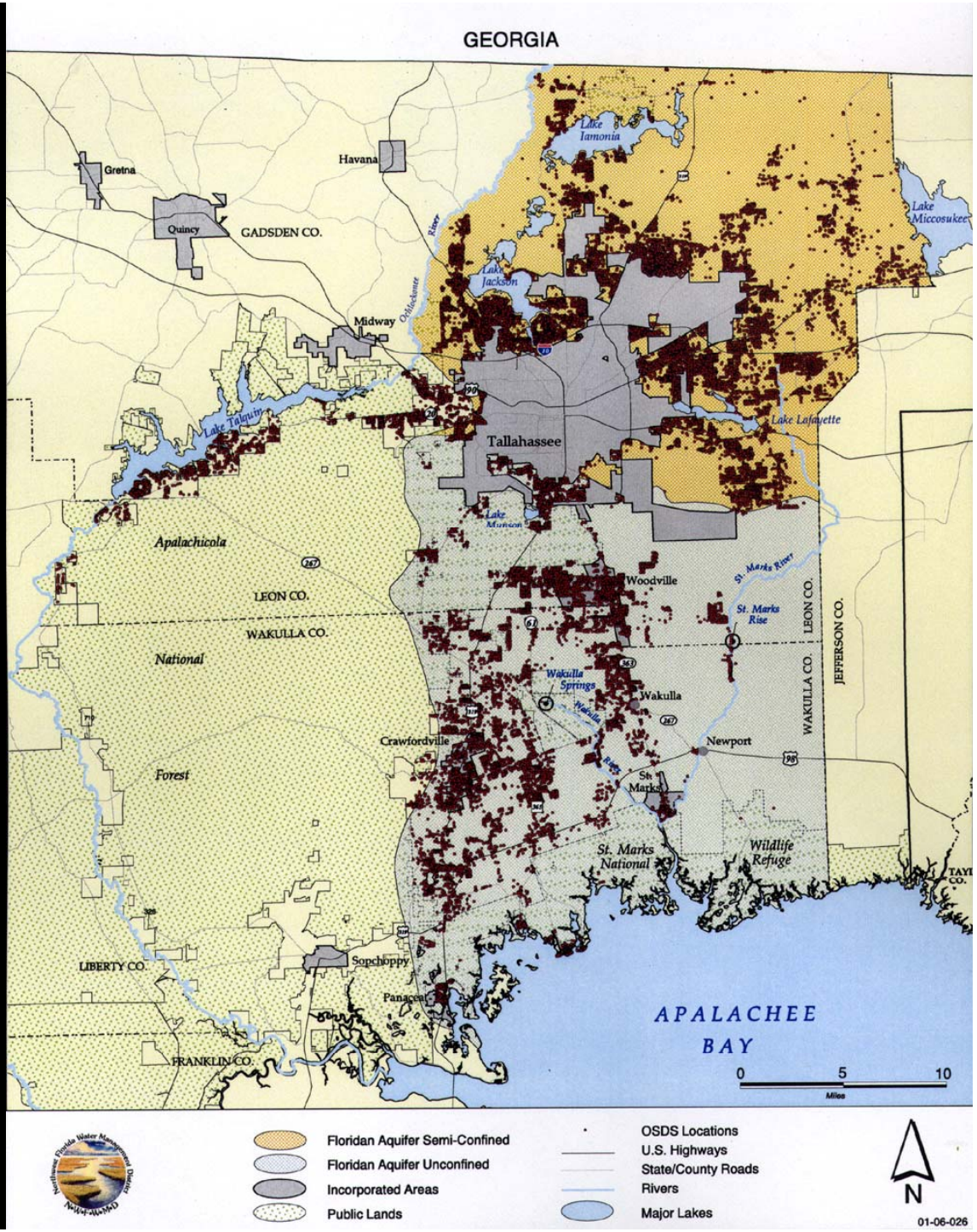
Land Uses


GEORGIA
GADSDEN CO.
LEON CO.
WAKULLA CO.
LIBERTY CO.
FRANKLIN CO.
JEFFERSON CO.
NWFWMD
SRWMD
APALACHEE BAY
0
5
Miles
Open Land
Residential
Commercial & Services
Industrial
Institutional
Recreational
Agriculture
Upland Forests
Water
Wetlands
Barren Land
Trans, Com, & Utilities

Waste Water Treatment Facility Effluent and Residual Disposal Areas

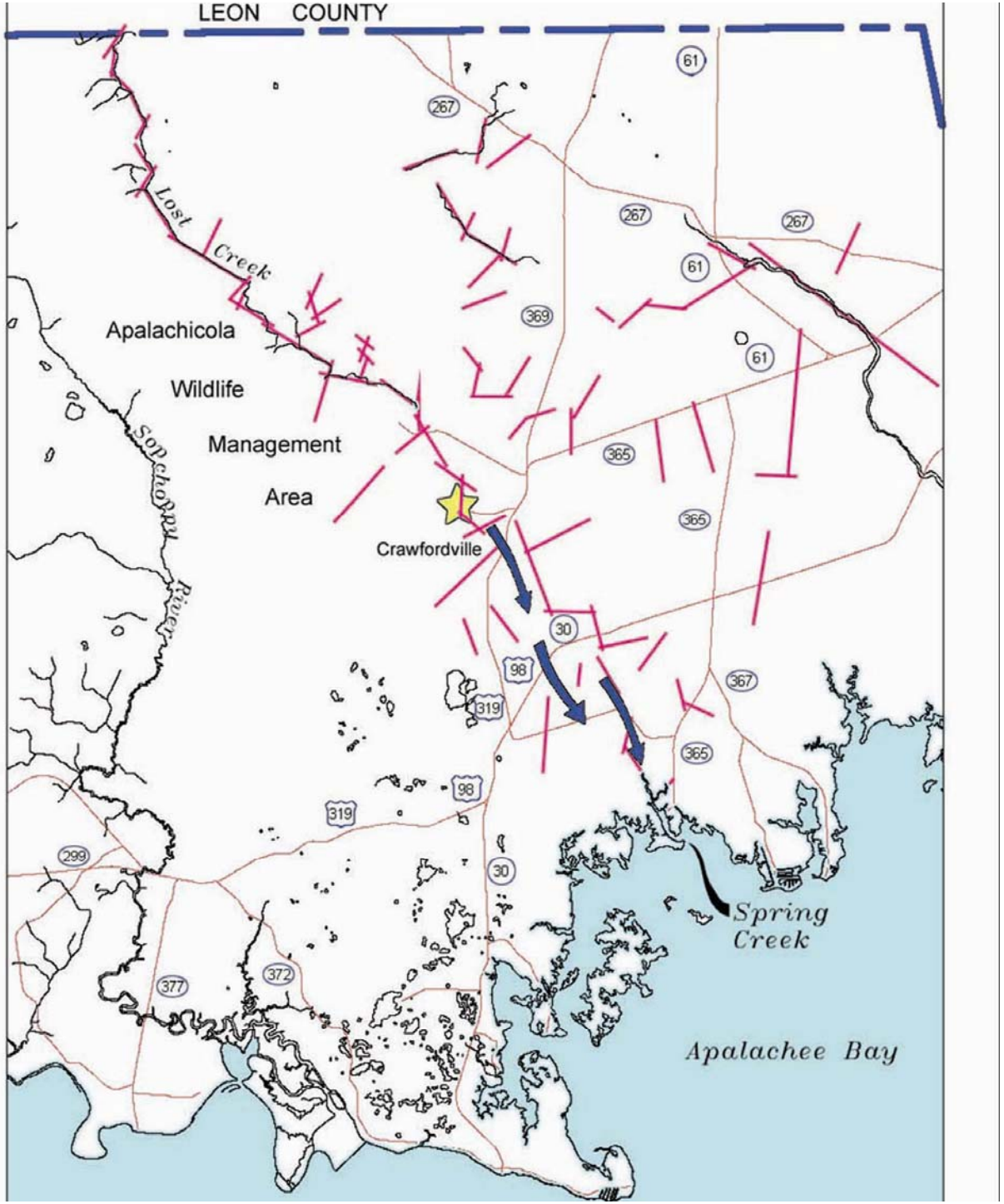


OSDS Locations



Lineamentsbased on Stream Segments & Other Surface Water Drainage Features

From Ed Lane, FGS

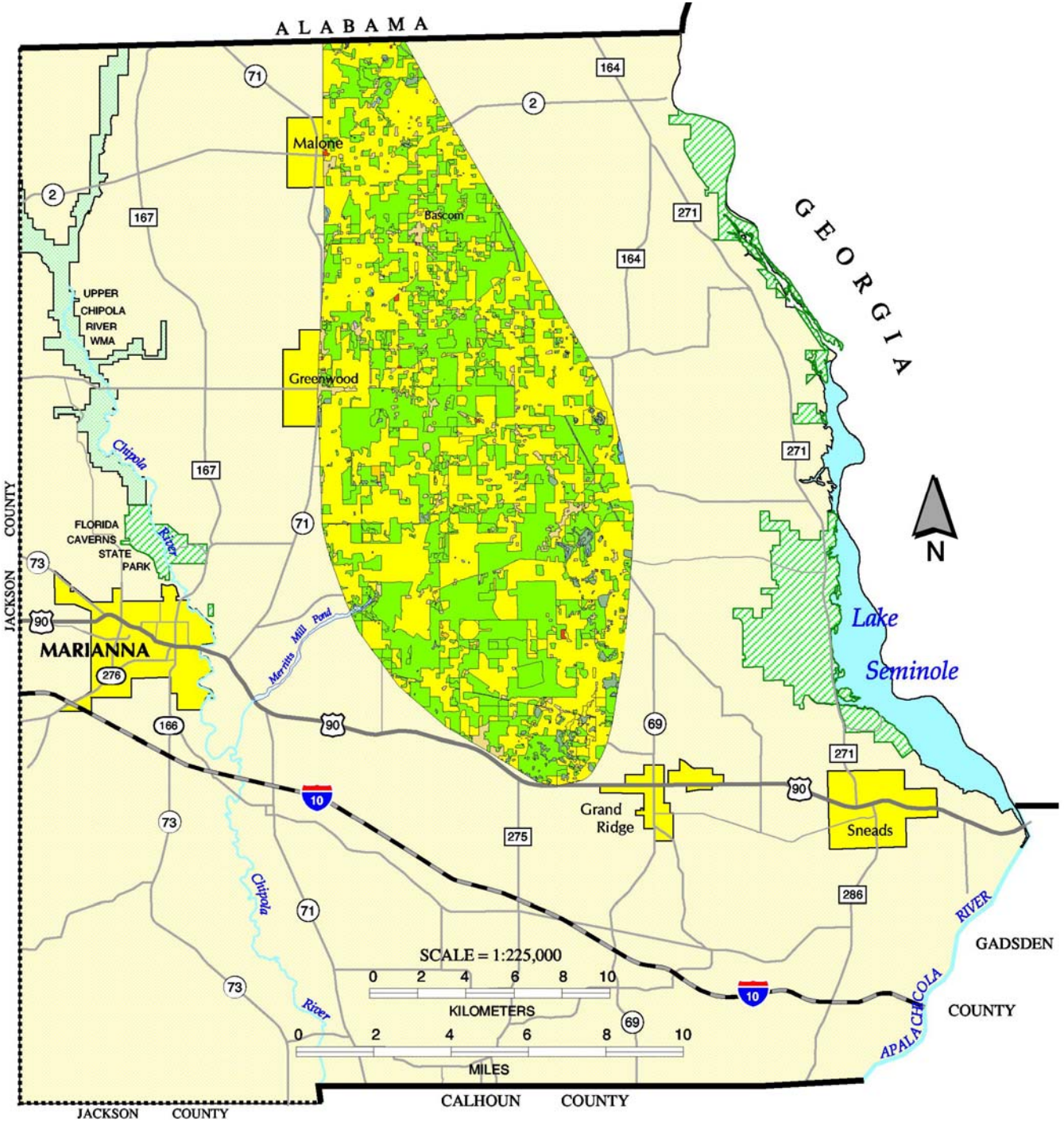


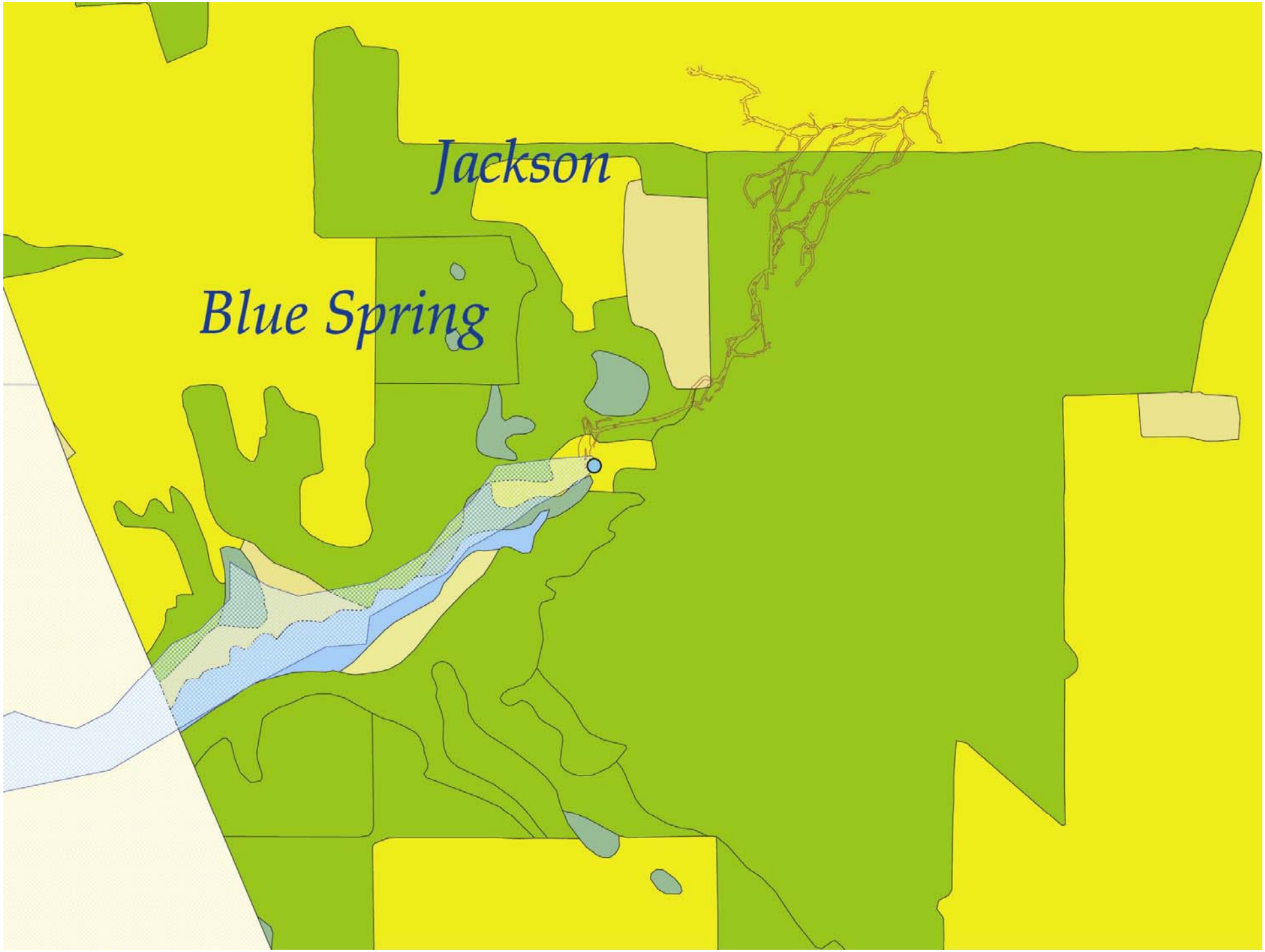
Jackson Blue Spring

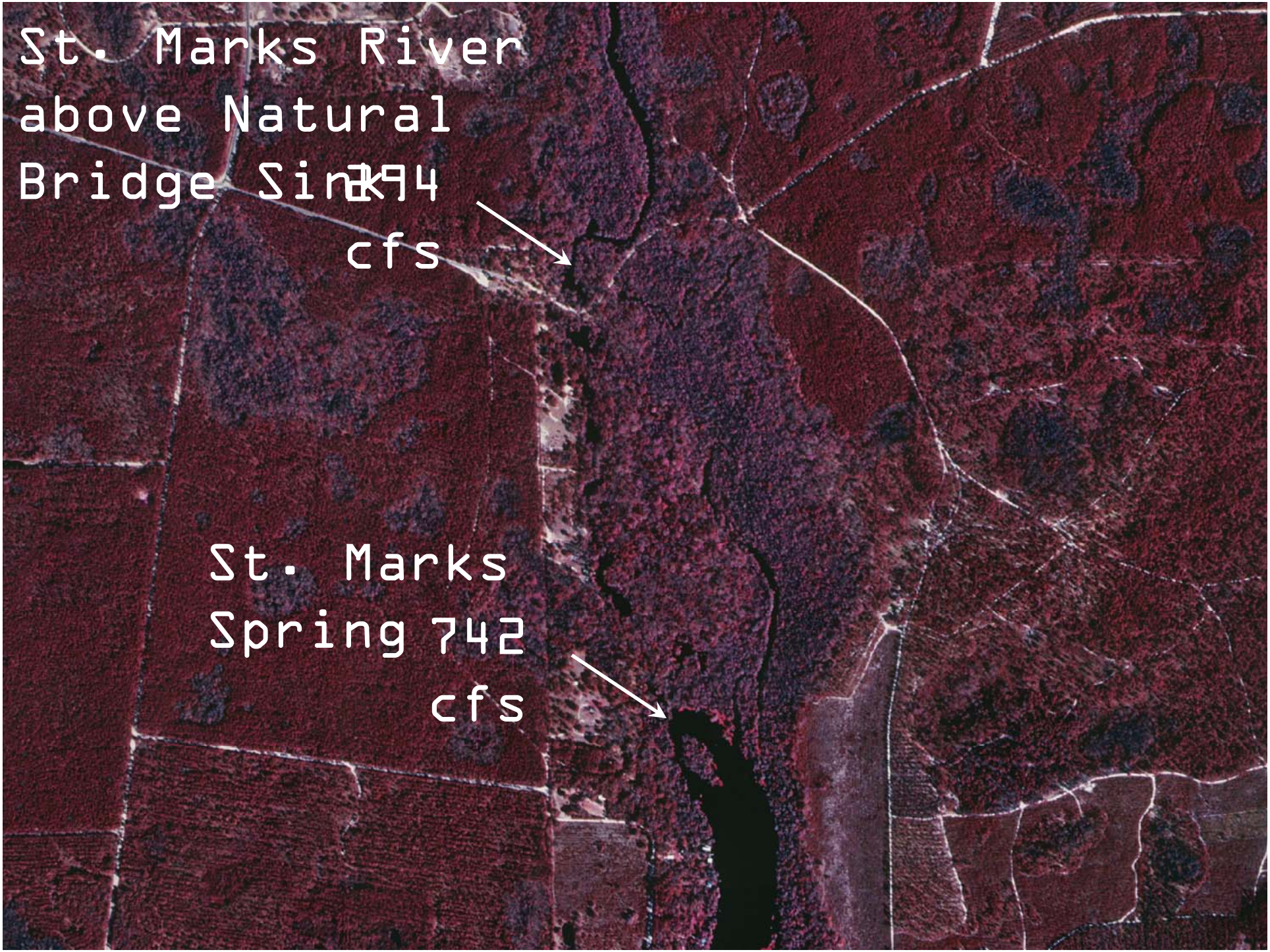
Conduit System

From FDEP GIS Section

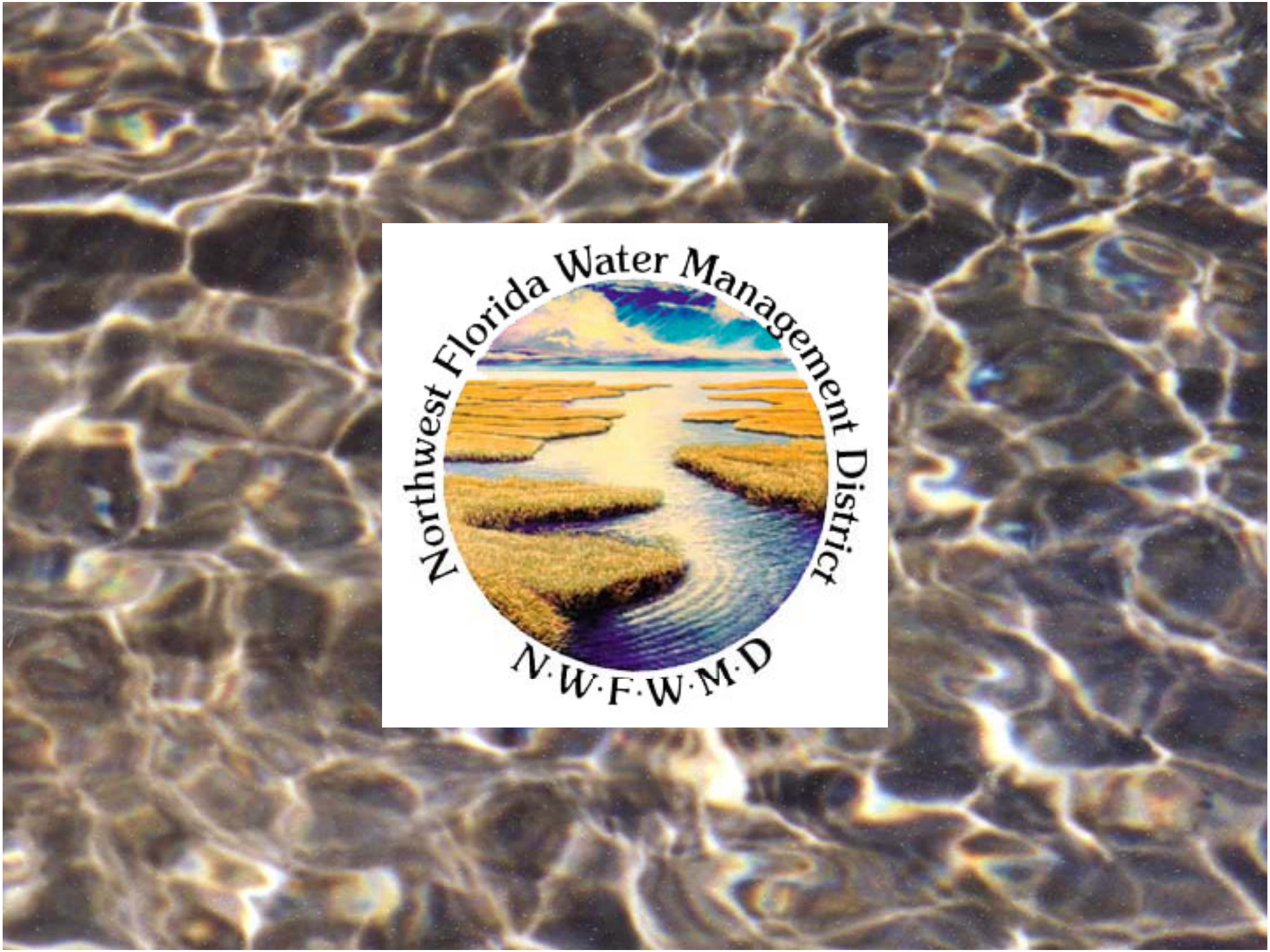
Jackson Blue Spring Land Use in Capture Zone




Jackson
Blue Spring


St. Marks River above Natural Bridge Sink 794 cfs
St. Marks Spring 742 cfs

"A diver told (Joe Follman) that one can travel--swimming with side-mounted tanks and


Northwest Florida Water Management District
N·W·F·W·M·D