

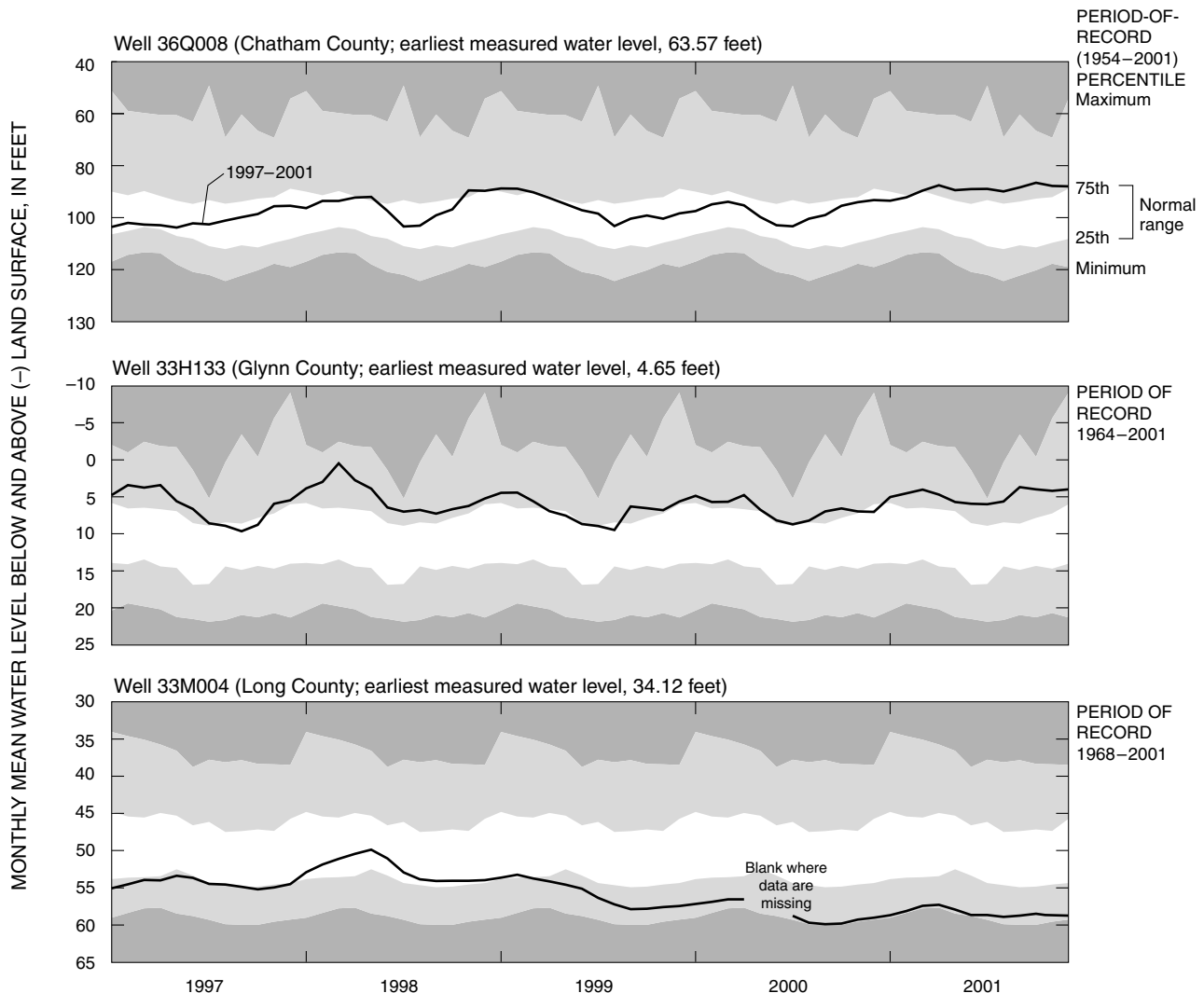
Upper Floridan Aquifer

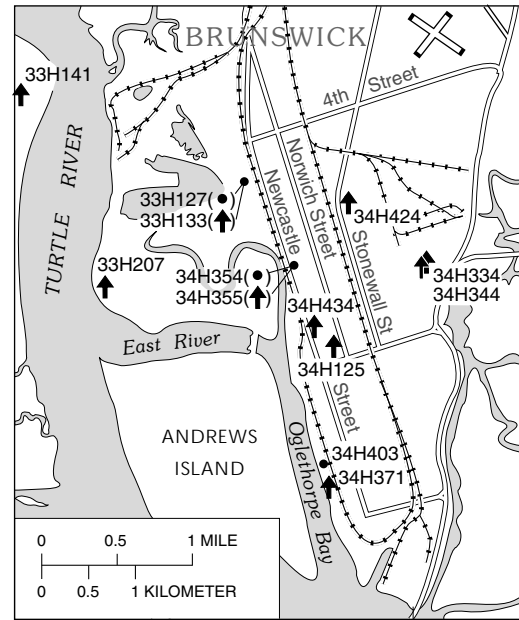
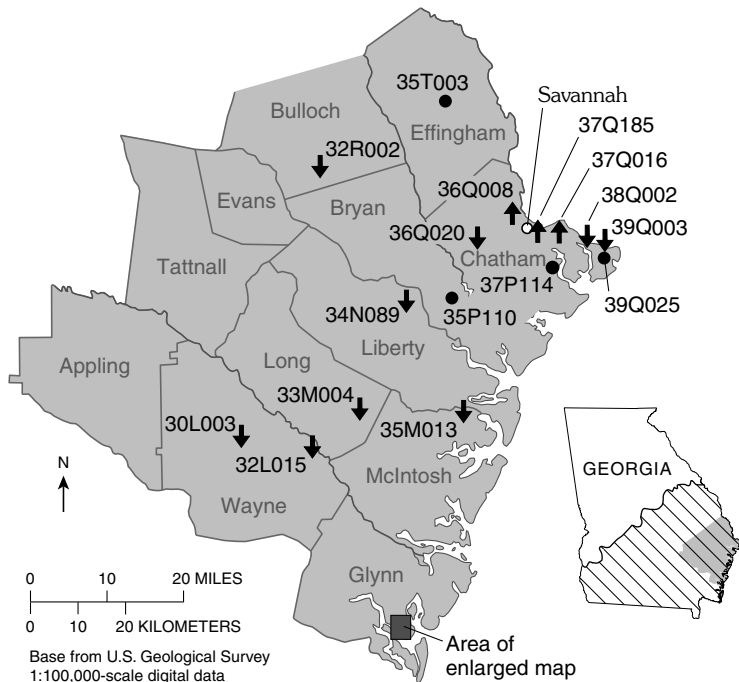
Central Coastal area

Water levels in 29 wells were used to define groundwater conditions in the Upper Floridan aquifer in the central coastal area of Georgia during 2001 (map and inset, facing page). In this area, water in the Upper Floridan aquifer is confined and influenced primarily by pumpage. Water levels in 7 wells were within the normal range, water levels in 9 wells were below normal, and water levels in 13 wells were above normal. Wells with water levels in the normal to above-normal range typically are located near the cities of Savannah and Brunswick where water use is primarily for industrial and public supply. Water-level rises in these areas occurred as a result of conservation and decreased water use. Wells with water levels below normal during 2001 are mostly in areas farther away from the Savannah and

Brunswick pumping centers, reflecting changing pumping patterns in those areas.

Water-level hydrographs for three Upper Floridan aquifer wells in the central coastal area of Georgia (shown below), were chosen to illustrate monthly mean water levels during 1997–2001 and period-of-record water-level statistics. The water level in well 36Q008 near Savannah in Chatham County was normal or above normal from 1997 to 2001—likely due to a decrease in water use from conservation (Julia L. Fanning, U.S. Geological Survey, oral commun. with David C. Leeth, 2002). Similarly, the water level in well 33H133 at Brunswick in Glynn County has been at or above normal since 1997—likely due to decreased water use. The hydrograph for well 33M004 in Long County shows a long-term decline with the water level declining below normal during early 1999 and continuing through 2001.





Base from U.S. Geological Survey
1:100,000-scale digital data

EXPLANATION

- Upper Floridan aquifer**
- Central coastal area**

Observation well, site name, and comparison of monthly mean water level during 2001 to period-of-record water level

- 37Q016** Above normal—Above 75th percentile water level for period of record
- 35T003** Normal—Between 25th and 75th percentile water levels for period of record
- 39Q003** Below normal—Below 25th percentile water level for period of record

Site name	County	Other identifier
35P110	Bryan	Richmond Hill, test well
32R002	Bulloch	Georgia Geologic Survey, Bulloch South, test well 1
36Q008	Chatham	Lance-Atlantic Company
36Q020	Chatham	H.J. Morrison
37P114	Chatham	Georgia Geologic Survey, Skidaway Institute, test well 2
37Q016	Chatham	East Coast Terminal well
37Q185	Chatham	U.S. Geological Survey, Hutchinson Island, test well 1
38Q002	Chatham	U.S. National Park Service, test well 6
39Q003	Chatham	U.S. Geological Survey, test well 7
39Q025	Chatham	Tybee Island, test well 2
35T003	Effingham	City of Springfield
33H127	Glynn	U.S. Geological Survey, test well 3
33H133	Glynn	U.S. Geological Survey, test well 6
33H141	Glynn	U.S. Geological Survey, test well 12

Site name	County	Other identifier
33H207	Glynn	Georgia-Pacific, south, test well 2
34H125	Glynn	U.S. Geological Survey, test well 1
34H334	Glynn	U.S. Geological Survey, test well 4
34H344	Glynn	U.S. Geological Survey, test well 7
34H354	Glynn	U.S. Geological Survey, test well 8
34H355	Glynn	U.S. Geological Survey, test well 9
34H371	Glynn	U.S. Geological Survey, test well 11
34H403	Glynn	U.S. Geological Survey, test well 24
34H424	Glynn	Hercules Inc., T well
34H434	Glynn	Glynn County Courthouse (deep)
34N089	Liberty	U.S. Geological Survey, test well 1
33M004	Long	U.S. Geological Survey, test well 3
35M013	McIntosh	U.S. Fish and Wildlife Service, Harris Neck 1
30L003 ¹	Wayne	City of Jesup Housing Authority
32L015	Wayne	Georgia Geologic Survey, Gardi, test well 1

¹ Well completed in upper and lower Brunswick aquifers and the Upper Floridan aquifer