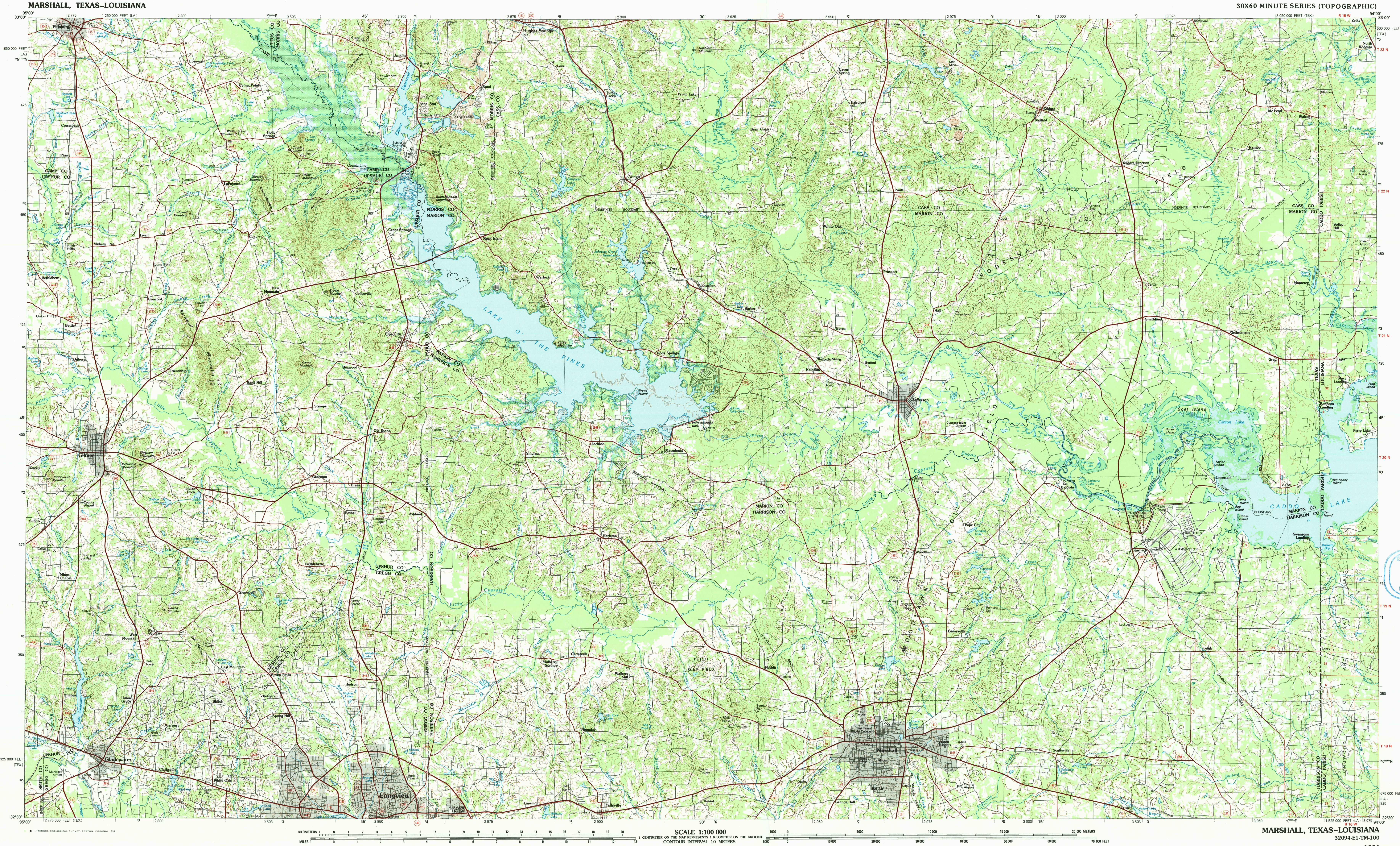


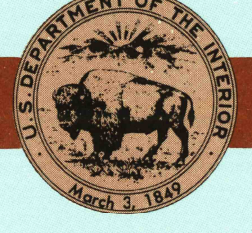


Marshall
TEXAS-LOUISIANA

1:100 000-scale metric topographic map

30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names

 GEOLOGICAL SURVEY

1986

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1960-1978. Planimetry revised from aerial photographs taken 1984 and other source data. Revised information not field checked. Map edited 1986.

Projection and 10 000-meter grid, zone 15 Universal Transverse Mercator. 25 000-foot grid ticks based on Texas coordinate system, north central zone and Louisiana coordinate system, north zone. 1927 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 11 meters south and 19 meters east. There may be private inholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 10 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM

UTM grid convergence (CON) and 1983 magnetic declination (MAG) at center of map. Diagram is approximate.

ADJOINING MAPS

1	2	3
4	5	
6	7	8

1 Sulphur Springs
2 Mansfield
3 Magnolia
4 Shreveport North
5 Shreveport North
6 Shreveport North
7 Henderson
8 Shreveport South

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092

USGS AND HISTORICAL MAP ARCHIVES
AUG 29 1991
REC'D FILE COPY

Topographic Map Symbols

Primary highway, hard surface
Secondary highway, hard surface
Light duty road, principal street, hard or improved surface
Other road or street, mail
Route marker, interstate, U. S. State
Railroad: standard gage; narrow gage
Bridge: overpass; underpass
Tunnel: road, railroad
Built-up area, locality, elevation
Airport; landing field; landing strip
National boundary
State boundary
County boundary
National or State reservation boundary
Land grant boundary
U. S. public lands survey: range, township, section
Range, township, section line: protected
Power transmission line; pipeline
Dam; dam with lock
Cemetery, building
Windmill; water well; spring
Mine shaft; adit or cave; mine, quarry; gravel pit
Campground, picnic area; U. S. location monument
Ruins, cliff dwelling
Distorted surface: strip mine; lava; sand
Contours: index; intermediate; supplementary
Bathymetric contours: index, intermediate
Stream, lake, perennial; intermittent
Ripple, large and small; falls, large and small
Area to be submerged; marsh, swamp
Land subject to controlled inundation; woodland
Scrub; mangrove
Orchard; vineyard

SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 10 METERS

MARSHALL, TEXAS-LOUISIANA
32094-E1-TM-100
1986

A pamphlet describing topographic maps is available on request