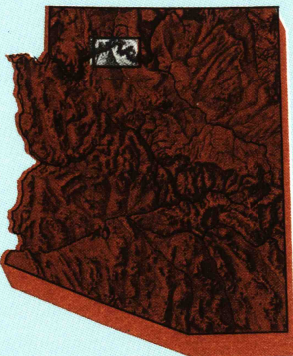


Grand Canyon

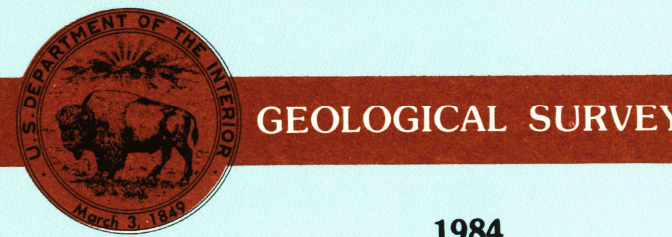
ARIZONA

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



Produced by the United States Geological Survey
Compiled from USGS 1:62 500-scale topographic maps dated 1962. Planimetry revised from aerial photographs taken 1980 and other source data. Revised information not field checked. Map edited 1984.
Projection and 10 000-meter grid, zone 12.
Universal Transverse Mercator
25 000-foot grid ticks based on Arizona coordinate system, central and west zones.
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 5 meters north and 67 meters east.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 50 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

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

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	29.5275
10	32.8084

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM

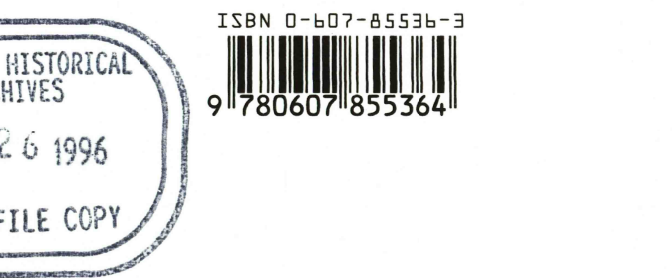
The diagram shows a vertical line representing True North (N) and a line branching off to the right representing Magnetic North (M). The angle between them is labeled 05° 16' M. Below the diagram, it says 16 MILS.

UTM grid convergence (GM) and 1984 magnetic declination (MD) at center of map. Diagram is approximate.

ADJOINING MAPS

1	2	3
4	5	
6	7	8

1 Littlefield
2 Fredonia
3 Glen Canyon Dam
4 Mt. Trumbull
5 Tule City
6 Peach Springs
7 Valle
8 Cameron

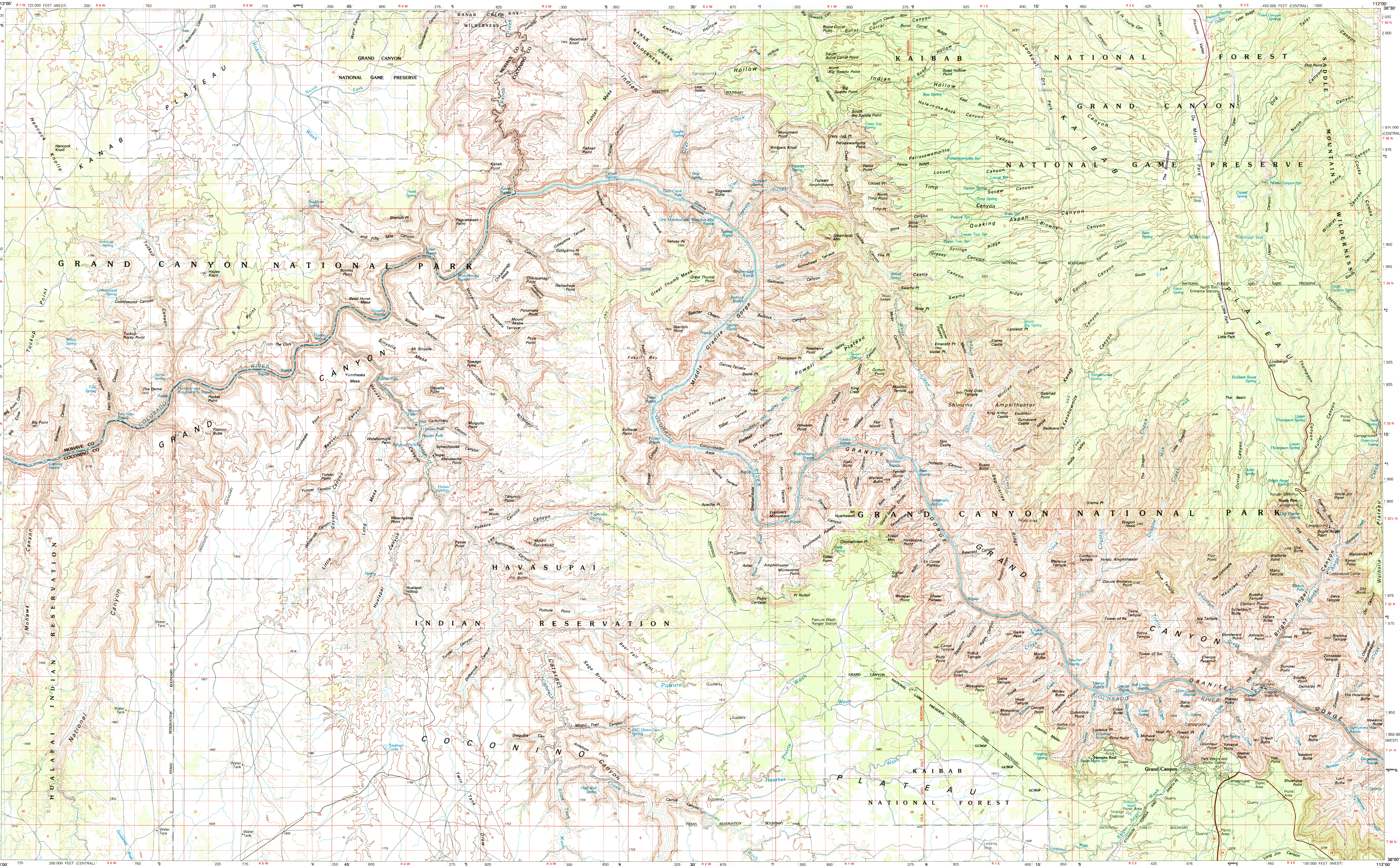


Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal arterial, hard or improved surface
- Other road or street, rail
- 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: protracted
- 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
- Ruin; cliff dwelling
- Distorted surface: strip mine, lava; sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake: perennial; intermittent
- Rapids, large and small; falls, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Shrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request

GRAND CANYON, ARIZONA



SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 50 METERS

GRAND CANYON, ARIZONA
36112-A1-TM-100

1984