

THE U.S. GEOLOGICAL SURVEY 1:100,000-SCALE
DIGITAL CARTOGRAPHIC DATA BASE

by John D. McLaurin
Digital Cartography Program Manager
National Mapping Division
U.S. Geological Survey
516 National Center
Reston, Virginia 22092
(703) 860-6222

ABSTRACT

The U.S. Geological Survey has initiated a major new production program to produce a 1:100,000-scale digital cartographic data base for the conterminous United States. The initial objective of the effort is the completion of the transportation and hydrography data sets by 1987. This phase of the program is being done cooperatively with the Bureau of the Census to meet their requirements for the 1990 census. Several other Federal agencies, including the Bureau of Land Management, the Federal Emergency Management Agency, the Nuclear Regulatory Commission, and the Department of Transportation, have also identified requirements for these data. As additional requirements are identified, other data categories will be added after 1987.

Production is being accomplished by raster scanning feature separation plates from the 1:100,000-scale maps, raster editing of the data, raster to vector conversion, and attribute tagging using interactive graphic systems.

Data from the 1:100,000-scale data base will be available beginning in March 1985 in 30-minute blocks (one-half of a 1:100,000-scale map sheet). Data will be distributed in digital line graph standard, graphic, or optional format depending on the software with which they are to be used.