

**National Mapping Program  
Technical Instructions**

# **Standards for 1:100,000-Scale Quadrangle Maps**

**Department of the Interior  
U.S. Geological Survey  
National Mapping Division**

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# **Part 1 Series Description**

**Standards for  
1:100,000-Scale  
Quadrangle Maps**

**Department of the Interior  
U.S. Geological Survey  
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Standards for 1:100,000--Scale Quadrangle Maps  
Part 1: Series Description

1. SERIES DESCRIPTION

This series consists of 30- by 60 minute quadrangle maps prepared in metric units at a scale of 1:100,000 (one centimeter on the map represents one kilometer on the ground). Maps in this series are designed to be folded and have a side panel title block, credit legend, and symbol legend.

The 30- by 60-minute series consists of topographic and topographic/bathymetric editions. This standard is to be used in preparing both editions. Interim planimetric editions are being produced to facilitate complete coverage of the United States. Content for planimetric editions is the same as topographic editions except for the omission of contours.

A 1:100,000-scale map is derived from existing 7.5- and 15-minute topographic maps and other source data. Map data are extracted from the large-scale source maps and, where required, updated from more recent aerial photographs and other secondary sources. New data is not field checked. Feature separates and master side-panels are prepared, and press-ready combined film negatives are forwarded for printing. Finished maps are trimmed and folded.

Maps in the 30- by 60-minute series are compiled to meet National Map Accuracy Standards.

**Standards for 1:100,000-Scale Quadrangle Maps  
Part 1: Series Description**

**This standard is to be used by anyone involved in the following tasks:**

- o **Base sheet plotting**
- o **Panelling 7.5-minute components**
- o **Updating from cartographic sources**
- o **Updating by photogrammetric methods**
- o **Extracting data from 7.5-minute components**
- o **Selecting and placing interior type**
- o **Selecting and placing margin type**
- o **Editing and checking feature separates**
- o **Preparing combined negatives**
- o **Printing**
- o **Trimming and folding**
- o **Distribution**