

DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
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EM 1110-1-1000

CECW-EE

Manual
No. 1110-1-1000

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**Engineering and Design
PHOTOGRAMMETRIC MAPPING**


1. Purpose. This manual presents procedural guidance, technical specifications, and quality control (QC) criteria for performing aerial photogrammetric mapping activities.

2. Applicability. This manual applies to all major subordinate commands, districts, and laboratories performing and/or contracting for aerial photography and photogrammetric mapping services in support of planning, engineering and design, construction, operation, maintenance, and/or regulation of civil works or military construction projects. This manual is also applicable to U.S. Army Corps of Engineers (USACE) functional areas having responsibility for environmental investigations and studies, archeological investigations, historical preservation studies, hazardous and toxic waste site restoration, structural deformation monitoring investigations, regulatory enforcement activities, and support to Army installation maintenance and repair programs and installation master planning functions. Waivers from applicability should be requested by written memorandum to Headquarters, USACE (ATTN: CECW-EE).

3. Discussion. The purpose of mandatory requirements is to assure that geospatial data developed from photogrammetric methods meet accuracy requirements and corporate direction for Geospatial data collection. **Mandatory requirements pertaining to the guidance contained in a particular chapter are summarized at the end of each chapter.** No mandatory requirements are identified in the appendices. Instead, any mandatory requirements pertaining to information contained in Appendices A through F are cited in chapters which reference those appendices.

FOR THE COMMANDER:

7 Appendices
Appendix A - References
Appendix B - Planimetric and Topographic
Feature Depiction Specifications
Appendix C - Guide Specification Guide
Specification for Photogrammetric Mapping
and Aerial Photography Services
Appendix D - ASPRS Accuracy Standards
for Large-Scale Maps
Appendix E - Sample Metadata File
Appendix F - Sample SOW
Glossary


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This manual supersedes EM 1110-1-1000, 31 March 1993.