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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 15967-1995

**Specifications for digital aerial photogrammetric mapping of
1:500 1:1 000 1:2 000 topographic maps
(English Translation)**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting:

This document replaces GB/T 15967-2008 "1:5001:10001:2000 topographic map aerial photogrammetry digital mapping specification" Compared with GB/T 15967-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Changed the mapping operation from "analytical aerial photogrammetry method" to "digital aerial photogrammetry method" the content and scope of application of the standard have been changed accordingly (see Chapter 1);
- b) Added digital surface model (DSM), digital elevation model (DEM), digital orthophoto (DOM), digital line map (DLG) etc: (see Chapter 4);
- c) The description of the specifications and requirements for the results has been changed (see 5.1, 3:1 of the:2008 edition);
- d) The accuracy of digital mapping of 1:500, 1:1000 and 1:2000 topographic maps using

analytical aerial photogrammetry has been deleted:

Requirements, online data collection requirements, etc: (see 3.2, 3.3 and Chapter 6 of the:2008 edition);

e) Added the frame-based digital aerial photogrammetry method for 1:500, 1:1000, 1:2000 DSM, DEM, Operation contents and technical requirements of DOM and DLG production (see Chapters 8, 9, 10 and 11);

f) Added requirements for the production of metadata, calendar books, technical summaries, etc: (see Chapter 12);

g) The relevant contents of quality control have been modified (see Chapter 13, 8:1 of the:2008 edition);

h) The content related to the compilation and submission of results has been modified (see Chapter 14, 8:2 of the:2008 edition):

1 Scope

This document specifies the production of 1:500, 1:1000, 1:2000 digital surface models based on frame-type digital aerial photography data:

Preparation, technical requirements, and relevant Responsible for document production, quality control, results compilation and submission, etc:

This document is applicable to 1:500, 1:1000, 1:2000 DSM, DEM, DOM and DLG production operations: Cartographic production based on push-broom aerial photography is performed as a reference:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document:

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document:

GB/T 7931 1:5001:10001:2000 Field specification for aerial photogrammetry of topographic maps GB/T 13923 Classification and codes of basic geographic information elements GB/T 18316 Quality inspection and acceptance of digital surveying and mapping results GB/T 20257.1 National basic scale map diagram Part 1: 1:500 1:1000 1:2000 topographic map diagram GB/T 20258.1 Basic geographic information element data dictionary Part 1: 1:5001:10001:2000 scale GB/T 23236 Specification for aerial triangulation of digital aerial photogrammetry GB/T 24356 Quality inspection and acceptance of surveying and mapping results GB/T 27919 Technical Specification for IMU/GPS Assisted Aerial Photography GB/T

27920.1 Specification for digital aerial photography Part 1: Frame-type digital aerial photography GB/T 39608 Metadata of basic geographic information digital products CH/T 1001 Rules for the preparation of surveying and mapping technical summaries CH/T 1004 Specification for Surveying and Mapping Technical Design CH/T 9008.1 Basic geographic information digital results 1:5001:10001:2000 digital line map CH/T 9008.2 Basic geographic information digital results 1:5001:10001:2000 digital elevation model CH/T 9008.3 Basic geographic information digital results 1:5001:10001:2000 digital orthophoto map CH/T 9022 Basic geographic information digital products 1:5001:10001:20001:50001:10000 digital surface Model

3 Terms and definitions

There are no terms or definitions that require definition in this document:

4 Abbreviations

The following abbreviations apply to this document: