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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 21740-2025

Replacing GB/T 21740-2008

Specifications for urban database construction of fundamental geographic information

基础地理信息城市数据库建设规范

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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 21740-2008 "Specifications for the Construction of Basic Geographic Information Urban Database" and is consistent with GB/T 21740-2008.

In addition to structural adjustments and editorial changes, the main technical changes are

as follows.

a) "Scalability" was added to "Construction Principles" (see Chapter 4);

b) Changed the relevant provisions of "Data Content". "Digital Surface Model Data" and "Place Name and Address Data" were added to "Basic Data" "3D geographic information model data", "geographic entity data", etc.; "grid data" and "street view data" have been added to "extended data" etc., changed the content provisions of "metadata" and "other data", deleted the "element data dictionary" (see 5.1, 4.4, 2008 edition Chapter 5);

c) In "Data Quality Requirements", the following sections are deleted. "Database Data Quality Fidelity Requirements", "Database Data Quality Fidelity Measures", and "Data Quality "Quality control of image and grid data", "quality of representation" and "quality of attachments" were added.

Related content (see 5.2, 4.6 and Appendix A of the 2008 edition);

d) The database construction process has been changed (see Chapter 6, 4.9 of the 2008 edition);

e) The content of "Data Organization" in "Logical Design" is made into a separate normative appendix A, and the content of "Organization of Digital Grid Map Data" is deleted.

"Organization and association of other data", and added "digital surface model data", "place name and address data", "three-dimensional The data organization requirements for geographic information model data, geographic entity data, grid data, and street view data have been modified.

Data organization requirements for "mapping data" and "digital elevation model data" (see 7.5.2, Appendix A, 6.5 of the 2008 edition);

f) Added "Timing Management" to "Logic Design" (see 7.5.3, 6.5 of the 2008 edition);

g) Changed the requirements of "Physical Design", "Safety and Confidentiality Design", "Design Document Requirements" and so on (see 7.6, 7.7, 7.8, 2008 Edition) 6.6, 6.7, 6.8);

h) Changed the content related to "data pre-entry inspection" and added the relevant provisions of "database body creation" (see 8.2, 8.5, 2008 Chapter 7 of the 2001 edition);

i) "Development and Integration" adds the requirement of "management system development and integration" and changes the relevant contents such as "software and hardware integration" (see Section 9 Chapter 8 of the 2008 edition);

j) Modified the relevant contents and requirements of "Database Testing" and "Database Acceptance" in "Testing and Acceptance" (see Chapter 10, 2008 Chapter 9 of the 2002 edition);

k) Changed the requirements related to "Operation and Maintenance" (see Chapter 11, Chapter 10 of the 2008 edition);

l) "Technology and Quality Management" has been deleted (see Chapter 11 of the 2008 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed by the Ministry of Natural Resources of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee for Geographic Information Standardization (SAC/TC230).

This document was drafted by: Surveying and Mapping Standardization Institute of the Ministry of Natural Resources, the Second Topographic Survey Team of the Ministry of Natural Resources, and the Construction Comprehensive Survey and Research Institute.

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2008 as GB/T 21740-2008;

- This is the first revision.

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