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

GB/T 12343.3-2009

Replacing GB 14512-1993

**Compilation specifications for national fundamental scale maps
- Part 3: Compilation specifications for 1:500 000 1:1 000 000
topographic maps**

国家基本比例尺地图编绘规范 第3部分：1:500 000 1:1 000 000地形图编绘规范

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Foreword

GB/T 12343 "national basic scale map compilation specification" is divided into three parts.

- Part 1. 1:25000 1:50000 1:100000 topographic map compilation specification;
- Part 2. 1:250000 topographic map compilation specification;
- Part 3. 1:500000 1:1000000 topographic map compilation specification. This section GB/T 12343 Part 3. This Part replaces GB 14512-1993 "1:1000000 topographic map compilation specification And drawings "in the compilation Specifications section. This section compared with GB 14512-1993 main changes are as follows:
 - According to GB/T 1.1-2000 standard format revision;
 - Increase in GB/T 20257.4 topographic map illustrated in the increase in the "elements of a comprehensive topographic map indicating the basic requirements" section Select indicators were elements of the index and select some of the elements of the feature to make appropriate changes;
 - In the "compilation methods and technical requirements" section increases the flow chart and topographic map compilation "first element selected resymbolize Edit" and The traditional method of operation 'element selection and editing symbols simultaneously, "the compilation method, delete pavilion, collages, scale series and so on;
 - In the "Preliminary work" section to remove the Description field Editorial Design book about job carving clear methods;
 - Now use the potential of the information from "off to a printed picture before sending Factory" to "before the deadline to submit a diagram acceptance";
 - Delete the original standard Chapter 6, "Printing picture production," and Chapter 7, "printed map" section. This section of Appendix A normative appendix. This part by the State Bureau of Surveying and Mapping. This part of the National Standardization Technical Committee centralized geographic information. This in part by the National Mapping Bureau of Surveying and Mapping Institute of Standardization responsible for drafting. The main drafters of this section. Ma Xiaoping, Xiao Guoxiong, Liu Xiaoqiang. This part of the standard replaces the previous editions are.
- GB 14512-1993.

Topographic map compilation specifications national standards GB 12343 "1:25000 1:50000 topographic map compilation norms", GB 12344 "1:100000 Topographic map compilation norms ", GB 15944" 1:250000 topographic map compilation specification and drawings ", GB/T 14512" 1:1000000 topographic map Compilation specification and drawings, "and industry standards CH/T 4011" 1:500000 topographic map compilation specification and drawings "has been implemented for many years, they are in my National economy construction and mapping production work has played an important role. In order to adapt to the digital mapping production needs to keep up with the corresponding ratio Coordination cases Topographical Map scale standard structure, it is necessary to adjust

the structure of topographic map compilation standard specification. After the restructuring, such as Introduction Said. This part is a complete revision after GB 14512-1993. National basic scale map compilation specification Part 3. 1:500 000 1:1 000 000 Topographic map compilation specification

1 Scope

GB/T 12343.3-2009 is the Chinese national standard on compilation specifications for national fundamental scale maps - part 3: compilation specifications for 1:500 000 1:1 000 000 topographic maps, in the field of natural and applied sciences. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 6 February 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2009. Classification: ICS 07.040, CCS A79. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 12343 provisions of this part of the basic requirements for compilation 1:500 000, 1:1 000 000 topographic maps, topographic and technical methods FIG various elements of comprehensive requirements and technical specifications. This section applies to the compilation 1:500 000, 1:1 000 000 topographic maps, thematic maps compilation corresponding scale basemap can participate According to use.

2 Normative references

The following documents contain provisions which, through

GB/T 12343 reference in this text, constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Research into whether the parties to the agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 13989 national basic scale topographic maps and numbering

GB/T 20257.4 national basic scale map drawings - Part 4. 1:250 000 1:500 000 1:1 000 000 Topographical Map CH/T 1004 mapping technology design requirements

3 Terms and Definitions

The following terms and definitions apply GB/T 12343 in this section.

3.1 The variety of information or data collection and edited into a topographic map to meet the requirements of the whole process of FIG.

3.2 Digital Line Graph (DLG) by the symbolic, editing, printing contour decoration for processes such as the formation of the printing process or drawing process data set.

3.3 According to certain rules and laws, by selection, simplification, exaggeration and shifting other methods for drawing objects quality, quantity, and special graphics Zheng processing, drawing objects to reflect the basic characteristics of the typical characteristics and process intrinsically linked.

4.1 Mathematical basis

4.1.1 Coordinate System Plane coordinate system using 2000 National Geodetic coordinate system. Elevation system using 1985 National Height Datum.

4.1.2 Projection 4.1.2.1 1:500000 topographic map projection Gauss - Kruger projection, according to the zoning by differential 6 °.