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

GB/T 17159-2009

Replacing GB/T 17159-1997

Geodetic terms

大地测量术语

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Foreword

This standard is GB/T 17159-1997 "Geodesy term" amendment. This standard and GB/T 17159-1997 compared to major Changes are as follows:

--- According to GB/T 1.1-2000 requirements of the standard format and style have been modified;

--- Increased the 2000 National Geodetic coordinate system, the 2000 national gravity base net, depth reference, loss of lock, single point positioning Doppler, Doppler Le linking measurement position, Doppler short arc method position, the whole tidal correction, the average tidal correction, zero tidal correction, precise point positioning, real-time Dynamic Positioning (RTK), network RTK, Continuously Operating Reference Station (CORS) and other 14 terms;

--- Delete the original standard

2.15 dynamic Geodesy, Geodesy

2.16 three-dimensional, four-dimensional geodetic 2.17, 3.70WGS72 (World Geodetic System),

3.74 origin of the earth, 6.94GPS satellite positioning, National Triangulation 7.4,

7.9 national standard point,

7.21 national geodetic network, geodetic

7.25 three-dimensional, dynamic geodetic 7.26,

7.29 net national standards, national triangulation 7.31,

7.34 satellite earth net 14 terms;

--- Before adjusting the order of certain terms, such as the original standard

1 Scope

GB/T 17159-2009 is the Chinese national standard on geodetic terms, 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 A75. 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.

This standard specifies the terms and definitions geodetic disciplines, along with the corresponding English words and pinyin index index. This standard applies to standard geodetic professional aspect relates to the formulation, preparation of technical documentation, archives, teaching materials, books and other literature.

2 Geodetic subject categories

2.1 Studies to determine the geometry and shape of the Earth and other celestial bodies, size, gravity field, global and local motion and surface points and their Changes in scientific theory and technology.

2.2 Determination of geodetic research and theory and method of the Earth's motion states and school branch mechanism.

2.3 Utilization of geometric observations (length, direction, angle, height difference) to solve the problem of geodetic disciplines Geodesy branch.

2.4 Mathematical properties of the ellipsoid to the surface and geodetic reference solver Geodesy bifurcation theory and methods.

2.5 Study on Comprehensive Utilization of a variety of methods to solve its geodetic basic discipline problems geodesy branch.

2.6 Study Setting and ground control network theory and technology of Surveying geodesy branch.

2.7 Earth Gravity Research on the use of gravity and other physical observables solve discipline problems Geodesy Geodesy branch.

2.8 Research on the use of natural or man-made objects to solve the problem of geodetic disciplines Geodesy branch.

2.9 Utilization star ground point geodetic measuring astronomical longitude, latitude and azimuth of the theory and methods of science branch.

2.10 Research on the use of artificial earth satellite geodesy solve discipline problems
Geodesy branch.

4.30 Geodetic adjustment to the original standard

4.26 geodetic longitude; original standard

5.8 normal gravity, normal gravity field exchange order 5.9;

--- Changing the name of some of the terminology, definitions and English equivalents. This standard was proposed by the State Bureau of Surveying and Mapping. This standard by the National Standardization Technical Committee on Geographical Information. This standard by the National Mapping Bureau of Surveying and Mapping Institute of Standardization responsible for drafting. The main drafters of this standard. Duan Yihong, Shaw school year, Zhu Jian, Lv Yuxia, Macong Li, Guo Yufang. This standard replaces the standards previously issued as follows:

--- GB/T 17159-1997.

GB/T 17159-1997 implementation has been more than a decade, the dissemination of scientific knowledge mapping, surveying and mapping science and technology exchanges at home and abroad, mapping text books Offer compilation, publishing and retrieval played a big role. However, in this decade, with the surveying and mapping geographical information technology, remote sensing technology, The rapid development of global positioning system technology, computer technology, network technology has entered a new space for development, its application also extends to All aspects of social life and economic life. Therefore, the revised standards take full account of this situation, with reference to the definition of the term "Surveying The term "(second edition) and" Earth Science Dictionary ", etc., and with the GB/T 14911-2008" mapping basic terminology ", GB/T 17694- 1999 "Basic terms of geographic information technology", GB/T 16820-2009 "Map of academic language" and other terminology standards coordination, and strive through this Standards reflect the basic outlook geodetic disciplines and techniques. This standard gives the terminology of Chinese pinyin and English equivalents index. Geodesy term