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

LY/T 1662.3-2008

**Standard for digital forestry. Part 3: Standard for data of satellite
remote sensing Images**

数字林业标准与规范 第3部分：卫星遥感影像数据标准
(English Translation)

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Foreword

LY/T 1662 "Digital Forestry Standards and Specifications" is divided into 11 parts.

- Part 1. Non-spatial data standards for forest resources;
- Part 2. Forestry Digital Vector Basic Geographic Data Standards;
- Part 3. Satellite remote sensing image data standards;
- Part 4. Forestry social and economic data standards;
- Part 5. Data standards for forestry policies and regulations;
- Part 6. Data standards for forestry literature;
- Part 7. Database building standards;
- Part 8. Database software specifications;
- Part 9. Database Management Specifications;
- Part 10. Metadata standards;
- Part 11. Data standard for returning farmland to forests.

This part is the third part of LY/T 1662.

This section provides standards for the processing and organization of satellite remote sensing image data.

This section specifies the use of radiometric correction (rough correction) of full-color images, multi-spectral images and hyperspectral images as data sources. Production the product is a geometrically corrected image data file with different resolutions and control point image data files of different scales.

This part is the mathematical basis, geometric accuracy, production technical requirements, operating procedures, technical indicators, storage orders for the production and processing of imaging products.

Uniform provisions have been made on the location and product naming and organization management. The geodetic reference for satellite remote sensing image data products was adopted in Xi'an, 1980.

The coordinate system and the elevation reference are based on the 1985 National Elevation Reference.

This part is proposed by the Institute of Resource Information of the Chinese Academy of Forestry.

This part is under the jurisdiction of the Chinese Academy of Forestry.

This section drafted by. Institute of Resource Information, Chinese Academy of Forestry.

1 Scope

In the field of forestry applications, satellite remote sensing image data can be divided into three categories according to spatial resolution, namely high spatial resolution (high ground resolution).

At 5m, such as IKONOS data), medium spatial resolution (ground resolution around 10 meters, such as TM data) and low spatial resolution (The ground resolution is less than 100m, such as MODIS data).

This part of LY/T 1662 uses full-color image, multi-spectral image and hyperspectral image with radiation correction (rough correction) as the number According to the source, the technical requirements and operating procedures for the production of basic imaging data products have been uniformly regulated. According to the needs of the forestry department Point, on the basis of the production of basic image data products to establish a forestry remote sensing image library, this section also made relevant provisions.

This part is applicable to the processing of satellite remote sensing image data products in forestry informatization work.

2 Normative references

The terms in the following documents become the provisions of this section by reference to this part of LY/T 1662. Quotations with dated , all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouragement is achieved under this section the parties to the agreement study whether the latest versions of these documents can be used. For undated references, the latest edition applies to this section.

GB/T 13989-1992 National basic scale topographic map framing and numbering GB/T 14950-1994 Photogrammetry and Remote Sensing Terminology GB/T 16820-1997 Cartography terminology LY/T 1662.2-2008 Digital Forestry Standards and Specifications

Part 2. Forestry Digital Vector Basic Geographic Data Standard

3 Terms and definitions

The following terms and definitions apply to this section.

The 1975 international ellipsoid is used, and the JYD1968.0 system is used as the ellipsoid orientation benchmark. The Yongle Town of Shuyang County, Shaanxi Province is selected as the origin of the earth.

The location, the geodetic coordinate system established by multi-point positioning.

Adopting the Qingdao standard origin and the average sea surface area of the Yellow Sea based on the tide gauge data from Qingdao Tidal Station, from 1952 to 1979 for the defined elevation reference, the starting elevation of the level origin is 72.260m.