

## JIS (Japanese Industrial Standards) and classification of Neogene and Quaternary - Impact to government -

Makoto Saito<sup>1</sup>, Yoshiharu Nishioka<sup>1\*</sup>

<sup>1</sup>Geological Survey of Japan, AIST

JIS (Japan Industrial Standards) are national standards based on Industrial Standardization Act, and are sorted by 19 sections now.

Industrial associations, academic societies and other organizations organize a drafting committee, and it prepare the draft JIS. The draft JIS is discussed and established by Japanese Industrial Standards Committee (JISC) in Ministry of Economy, Trade and Industry (METI), and is noticed through official gazettes.

There are three JIS in geology, and they all belong to Category A of civil engineering and construction.

JIS A0204, "Geological map - symbols, colors, patterns, terms, and presentation of legend" (Draft proposer: National Institute of Advanced Industrial Science and Technology (AIST)) established 2002 (revised 2008) is intended that the standardization of symbols and display method of legend on a geological map brings improvement of the convenience at the time of reading and use of geological map.

JIS A0205 "Vector-digital geological-map - Quality requirements and subject attribute codes" (Draft proposer: AIST) established 2008 is prescribes the metadata or codes of age and rock type of a vector-digital geological-map that the wide use is expected in future.

JIS A0206 "Geological map - Symbols, colors, patterns, terms, geological units, and codes of engineering geological maps" (Draft proposer : Japan Geotechnical Consultants Association (JGCA), AIST, Public Works Research Institute (PWRI)) established 2008 is the standards for geological maps using in civil engineering and construction, and refer to A0204, A0205.

These were drafted by each drafting committee that consists of members of the representatives of academic societies, research institutes, ministries and industrial associations. For example, the drafting committee of A0204 and A0205 consist of the representatives of 8 academic societies (Geological Society of Japan, The Society of Resource Geology, JGCA, etc.), 3 ministries (Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Ministry of Agriculture, Forestry and Fisheries (MAFF), METI), research institutes organizations (AIST, PWRI, Railway Technical Research Institute (RTRI) and Japan Oil, Gas and Metals National Corporation (JOGMEC).

JIS are voluntary standards, and then someone can make the geological map that ignored the JIS. Although, social impact is strong because of the government and local governments must respect JIS (Industrial Standardization Act, Article 67).

This problem of Neogene-Quaternary boundary needs to improve codes of JIS A0205. Since two years have passed from the establishment or revision of these three JIS, it is the time to already prepare for the next revision for holding schedule of the drafting committee to revise. We are going to prepare for the revision including the problem of Neogene- Quaternary boundary.

Keywords: Japanese Industrial Standards, Neogene, Quaternary, government