

## Standardization of digital geological map : Enacted JIS codes for symbols and terms, etc. and the use

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In recent years with increased development of land, needs for environmental protection and mitigation of disasters, demand for geological maps has grown as a medium of fundamental information. On the other hand, the standardization is a pressing need to attempt the advanced use of the geological map in a different manufacturer and various users and the use environments. Therefore, National Institute of Advanced Industrial Science and Technology (AIST) proposed the following JIS rough drafts.

JIS A 0205:2008 : Vector-digital geological-map - Quality requirements and subject attribute codes

This JIS rough draft came to be notified through the discussion of the original bill making committee by the committee of the relating organization etc. this time. In the main discourse, it especially introduces the content, the meaning, and the use example, about subject attribute codes among this JIS.

This JIS provides for codes of sign, color, pattern, unit of stratum and complex, term etc., used by the geological map. These terms cover general geological age, rock name, mineral name, and fossil name, etc. Moreover, the code is fixed, and can correspond to a flexible code putting and the code retrieval by reflecting the thesaurus of each code. These codes were tested by AIST 1/200,000 geological map series has published, and were proven that these have enough power of expression. In addition, it is considered that the international reference is taken to its maximum in the code design.

AIST is preparing the web site where the associated data and tools are disclosed so that this JIS is smoothly used. It is scheduled to offer it as files that outputs code tables to the text-base and the XML format in the web site. Especially, code list data of the XML format doesn't depend on platforms of OS or the linguistic environment, and be also good intimacy with the internet technology. Moreover, the page to which the code is retrieved by using them and the example of actually converting 1/2,000,000 Japan geological map etc. are presented.

Additionally, AIST advances making as geological glossary necessary for expression and use of the geological map.