4P1 4H-O20

Room B2

Date/Time: July 24 16:15-16:30



Database of Quaternary volcanic and intrusive rock bodies in Japan

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Understanding the change of long-term volcanic activity such as migration of volcanic province is important to elucidate the volcanic activity during Quaternary. Therefore, it is necessary that the history of activity of volcanoes or volcanic cluster have been clarified on the geological timescale of several ten thousand to hundred thousand years. Our goal is to construct a geological database of Quaternary volcanoes in Japan using the latest data which have picked up not only the Quaternary volcanic rocks but also volcanic and intrusive rock bodies that haven't been checked in previous databases. Additionally, definition of lower boundary in Quaternary (Pliocene-Pleistocene boundary) have changed from 1.806 Ma to 2.588 Ma proposed by IUGS in 2009. Here we screened Quaternary volcanic and intrusive rocks from igneous rocks in all of Japan using published scientific papers, reports, geological maps and so on.

This database can be viewed on the browser, and it is linked to "Seamless Digital Geological Map of Japan (1:200,000)" and "Quaternary Volcanoes in Japan" on Reserch Information Database (RIO-DB) of AIST. Contents which based on geological reviews of each volcanic and intrusive rock bodies are "Volcano / Volcanic rock body name", "Geological unit name", "Reprentative location of volcano / volcanic body", "Volcano / Volcanic rock body type", "Activity period", "Main rock type", "Reason of an addition to database", and "List of references". By the way, this database also contains any volcanic and intrusive rock bodies what may be excluded from Quaternary depending on the further research. We hope this database can support a a research project for the volcanic hazard reduction, national land utilization (e.g. construction of nuclear facilities) and so on.

Newly-research data becomes obsolete in a few years in this age of rapid progress. Consequently, it is desirable that database is transmitted which always updated in the latest data under the control of responsible management system. We will publish the latest version to be updated on regularly that is available from http://unit.aist.go.jp/dgcore/db/QVDB/.

Acknowledgement: This research project has been conducted as the regulatory supporting research funded by the Secretariat of Nuclear Regulation Authority (Secretariat of NRA), Japan.