

Towards the final results: Integrated Program for Next Generation Volcano Research and Human Resource Development (INeVRH)

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Integrated Program for Next Generation Volcano Research and Human Resource Development (INeVRH) began in 2016 and is now approaching the final stage. So far, we have developed the research platform named JVDN (Japan Volcanological Data Network) system, archiving the observation data and visualization tools for the evaluation of volcanic activity. The objectives of Next Generation Volcano Research are as follows: Countermeasures for upcoming/ongoing volcanic hazards; understanding real-time information and presenting their scenarios, Presenting probabilities of eruptions. For these goals, we are planning to propose the concept of urgency of volcanic activity, which includes both volcanic activity itself and volcanic hazard evaluation. From the geologic and petrologic points of view, staircase diagram of volcanic ejecta are the information on long-term volcanic activity. State transition diagram indicates the state of volcanic system based mainly on the observation data. For the emergency management, USGS-VDAP event tree is more efficient to evaluate and judge the on-going volcanic activity and hazards.

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