

Volcanoes of Kurile-Kamchatka Islands Arc information system

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Volcanoes of the Kurile-Kamchatka Island Arc (VOKKIA) web-based information system as a part of the geoportal of the Institute of Volcanology and Seismology (IVS) FEB RAS has been developing since December 2010 (geoportal.kscnet.ru/volcanoes/). The system will integrate available volcanological data (geological, geophysical, petrological, geochemical, etc.), relating to the volcanoes of Kamchatka, Kurile Islands and adjacent water areas. The main sources of information for VOKKIA are the data from scientific publications. In addition, we use an information web and local IVS FEB RAS resources about volcanoes: catalogs, databases, geographic information systems, different archives and collections volcanological data in various digital formats. The system has scalable module structure. At present it includes the blocks: Volcanoes, Eruptions, Monitoring, Images, Geoservices, Bibliography. VOKKIA provides a single interface to all components of its information blocks and an easy access to heterogeneous attributive data and associated interactive map services. Currently, the system contains descriptions of 178 volcanoes, are active in the Holocene. First, VOKKIA is completing of information about the historical eruptions from scientific publications and operative information about current eruptions from the Kamchatkan Volcanic Eruption Response Team (KVERT). VOKKIA will allow integration of wide range of data on volcanoes in Kamchatka, Kurile Islands and adjacent seas into a single information environment available for the world scientific community and for Internet users.