

Geology of the caldera volcanoes producing the Early Pleistocene Shirakawa pyroclastic flow deposits, NE Japan

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The Early Pleistocene Shirakawa pyroclastic flow deposits are the products of large-volume dacite volcanism in the southern parts of the NE Honshu arc. The deposits consist of the Kumado (ca. 1.4 Ma), Ashino (1.4- 1.2 Ma), Nagurasawa (1.2- 1.0 Ma), Nishigo (ca. 1.0 Ma), and Ten-ei (1.0- 0.9 Ma) pyroclastic flow deposits. The Kumado, Ashino and Nagurasawa, and Nishigo pyroclastic flow deposits were shed from the Ono (>7 km in diameter), Tonohetsuri (18 by 12 km), and Narioka (10 by 4 km) calderas, respectively.