**Detection of regional volcanic ash markers from upper Miocene Teradomari Formation in Niigata region, central Japan**

Katsuki KUROKAWA, Toyoki AOKI (Niigata Univ.), Shin'ichi URUMA (Sarushashi J.H.S.) and Osamu TAKANO (JAPEX).

The volcanic ash markers in the Teradomari Formation of Niigata region were studied. The ash layers were deposited during the upper Miocene period and were useful for understanding the volcanic activities in the region. The markers include ash layers and tephra deposits from various volcanic sources. The comparison of ash compositions and mineralogical characteristics was performed to identify the source of the ash layers.

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**New Volcanic Activity in the Hachijojima Area**

Koichi ITOH (Hachijojima Volcano Observatory).

New volcanic activity was observed in the Hachijojima area during the period of this study. The activity included the emission of volcanic gases and ash. The ash layers were sampled and analyzed to understand the volcanic history of the area. The ash layers were compared with the ash layers from other volcanic regions to identify the volcanic sources.

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**Volcanic Ash Markers in the Jomon Period**

Masayuki KATSUKI (Hachijojima Volcano Observatory).

Volcanic ash markers were found in the Jomon period sediments. The ash layers were analyzed to understand the volcanic activity during that period. The analysis showed that the volcanic activity was widespread in the region during that period. The ash layers were compared with the ash layers from other periods to understand the volcanic history of the area.

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