

## Volcanic activity style and uplifting history in the northern Japan Alps (Hida mountain range), central Japan

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There are good temporal relationships between volcanism and uplifting in the northern Japan Alps (Hida mountain range). These activity can be divided into two stages: 2.5-1.5Ma, 0.8-0Ma. Regional tectonics estimated from volcanic activity style suggests different uplifting mechanisms in each stages. The mechanism of uplift is isostatic uplifting caused by magmatic intrusion at the first stage, and buckling at the thinning part of elastic crust caused by magma heat in the later stage.