

## Found Kikai-Tozuhara tephra on central district of Kaetsu-Uplands and its meaning

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Kaetsu uplands are located between Ishikawa and Fukui Prefecture and placed on northern part of active faults on east side of Fukui plain. This area is compressive stress field by many active faults and folds. So that this district is consist of clear upheaval and sedimentation areas. Reserching area is Central part of Kaetsu uplands. From existing research, this researching area is decided into M2 terrace. But marine terraces on east part of this area are distributed into M2 without established era data as tephra, paleomagnetism, but west part of it is decided by Youokura(1991)and so on. So, I thought that before researching all of marine terrace in this area.I have to decide whether or not all of this area is M2 terrace.

I found silt layer at Akao, Awara-city on Kaetsu uplands. Took off sands and experimented. I used MAIOT by Furusawa geology to prove an index of refraction.

I found Kikai-Tozuhara tephra(K-Tz)from these samples because

- 1) an index of refraction is between 1.396 and 1.500,
- 2) has high temperature quartz,
- 3) doesn't have biotite.

From these evidence, all of Central part of Kaetsu uplands are decided to M2 terrace and formed on MIS5c.

From this research, I thought that there are precondition for researching about topography of Kaetsu uplands.I think that now, I can research about this area on geomorphology.

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