

SSS034-P05

Room:Convention Hall

Time:May 23 10:30-13:00

Relationship between half-graben and high-velocities area at depths of 10km in Kanto area 4

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¹none

The distribution of half-graben (ground-based V shaped Valley structure) (Takahashi 2005) seems to coincide with high-velocities area at depths of 10km in Kanto Area (Matsubara 2005)-(Oishi 2007)

It is possible that the southern part of Ibaraki prefecture and northern part of Chiba prefecture were once piled under Saitama prefecture, slipped out and moved to about 80 km east the Miocene epoch. (Oishi 2009), after analysis of the shape and the cross section of the high velocities areas and the distribution of the rocks .

Especially, around Tsukuba , south part of Ibaraki prefecture satisfy the three conditions of metamorphic core complex ,rift flank uplift .

- 1 Moho is shallow ,only about 25km deep.
- 2 high gravity anomaly
- 3 high heat flow

1 after Katsumata 2010 in Kisyoken 2 gravity anomaly after Sansoken AIST 3 after Matsumoto in Bosaiken NIED

The lower illustration shows the collision of the central ridge of late Cretaceous (about 70 Ma) under the Jurassic and the movement of the rift of the Miocene (about 15Ma)

With this picture, we can understand why the two layers of Jurassic go side by side striding MTL.

