Japan Geoscience Union Meeting 2012
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SSS34-P16 Room:Convention Hall Time:May 21 13:45-15:15

Relationship between half-graben and high-velocities area at depths of 10km 5

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[1]Atelier Science

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)

[Kyusyu Area]

Similarly in Kyusyu Area the distribution of coalfield over half-graben seems to coincide with high-velocities area at depths of 10km in Kyusyu Area with some exceptions.

There are high-velocities areas at 10km below Coalfield in Chikuho (Fukuoka prefecture),Karatsu(Saga prefecture),Sasebo(Nagasaki prefecture),Amakusa(Kumamoto prefecture)

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A coalfield is a place of spreading and sinking.

The Nishisonogi Peninsula has crystalline schist (which is as old as that of Sanbagawa metamorphic belt) and has mylonite and bedded manganese deposit.

Strangely enough, near M T L (U Y T-L) Kyusu has crystalline schist only in Saganoseki (Ohita prefecture).

Nagasaki prefecture and west part of Kumamoto prefecture are spreading areas (

Quaternary igneous activity areas)

Considering the distribution of spreading areas (Quaternary igneous activity area and

coalfield 40Ma)and that of mylonite and bedded manganese deposit ,The Nishisonogi Peninsula was once pilled under MTL(around Mt. Aso)at depths of 20km ,slipped out and went up by 40Ma,moved to west about 200 km.