Gd-P005 Room: Poster Time: June 9 17:30-19:30

Magnetic anisotropy of the tectonic melange

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We measured magnetic anisotropy of the tectonic melange and compared its with deformation texture on mesoscopic to microscopic scale. The obtained results are summarized as follow: (1) Magnetic fabric faithfully reflects fabric pattern within the tectonic melange. (2) Magnetic fabric of lower part of the melange was formed when sediments were deformed by particulate flow and mechanical rotation of grains, whereas that of upper part was developed during cleavage forming process. (3) In case of deformation by brittle fracturing, magnetic fabric retains previous fabric, showing that shear strain was accommodated by shear fractures and that there are no correlation between strain and magnetic fabric.