Z255-P003 Room: Poster Session Hall Time: May 19

Can we retrospectively forecast the M=6.9 Noto Hanto earthquake of 25 March 2007? How about the other faults nearby?

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Can we retrospectively forecast the M=6.9 Noto Hanto earthquake? To answer this question, we re-examined the geologic and geomorphologic data available today. Together with the coseismic deformation obtained by the coastline survey and GPS data, we then found that occurrence of M<sup>\*</sup>7 shock might have been inevitably lead if we had used the best geologic data and considerable models that explain long-term cumulative landforms in and around the epicentral area. Besides, to evaluate the near future activity of the other faults nearby the Noto Hanto earthquake area, we calculated static Coulomb stress change on them. While the major active faults in the southern Noto Peninsula might have received negligible stress changes, the Sakami fault that strikes NS close to the source might have suffered significant stress increase due to the Noto Hanto shock. Quaternary faults off shore nearby may have been brought also closer to failure but no clear evidence they are active in the Holocene period.