Discussion on the ground ruptures appeared in alluvial plain in Aso caldera and earthquake fault based on field investigation and low-altitude aerial photogrammetry.

\*Kei Tanaka<sup>1</sup>, Takashi Nakata<sup>2</sup>, Nobuhisa Matsuta<sup>3</sup>, Kyoko Kagohara<sup>4</sup>, Daishi Takenami<sup>5</sup>, Takashi Kumamoto<sup>3</sup>, Hikaru Moriki<sup>5</sup>

1.Japan Map Center, 2.Prof. Emeritus, Hiroshima Univ., 3.Okayama Univ., 4.Yamaguchi Univ., 5.Graduate Student, Okayama Univ.

We examined ground ruptures appeared in alluvial plain in Aso caldera based on field investigation and low-altitude aerial photogrammetry, in order to discuss their origin. Ground ruptures are extended from north of Aso-Nishi primary school in the south to Uchinomaki hot spring in the north. They are aligned in ENE-WSW direction forming elongated depressions bounded by parallel running steep scarps with maximum height of 2m. They are, in places, are associated right-lateral fault slips of several decimeters. Therefore we suggest that some of the ground ruptures are probably triggered by surface faulting and resulted in extensive ground ruptures.

Keywords: Kumamoto Earthquake, surface fault, ground rupture, Aso caldera