

## Tsunami disaster and geographical risks

Makoto Takahashi<sup>1\*</sup>, Nobuhisa Matsuta<sup>1</sup>, Kazuaki Hori<sup>1</sup>, Shigeyoshi Tanaka<sup>1</sup>

<sup>1</sup>Nagoya University

In this paper, from the multidisciplinary perspective of physical and human geographies and sociology, we discuss the concept of geographical risk based on our researches on the interrelationships between hazard, building damage and human death in tsunami disasters, comparing between the cases in Banda Aceh that was most severely affected in the 2004 Sumatra Earthquake, and several municipal districts of Miyagi Prefecture in the 2011 Tohoku Earthquake. As concluding remarks, we argue the necessity of conceptually identifying natural impact and social vulnerability causing/consisting in damages of each geographical location.

Keywords: tsunami disaster, geographical risk, location, vulnerability, scale of space