

FLOODS AND LANDSLIDES IN THE CITY OF TUZLA AREA CAUSED BY NATURAL DISASTERS IN 2014

Semir Ahmetbegović, Željka Stjepić Srkalović and Senad Gutić

University of Tuzla, Faculty of Natural Sciences and Mathematics, Department of Geography

Univerzitetska 4, Tuzla, Bosnia and Herzegovina

semir.ahmetbegovic@untz.ba

zeljka.s.srkalovic@gmail.com

senad.gutic@hotmail.com

The paper analyzes the occurrence of floods and landslides in the city of Tuzla area, due to above-average rainfall during 2014. Water levels, flows and floods caused by natural disasters in May and August of 2014 were significantly higher proportions compared to previously registered values. The cause of the extremely high water levels and flooding in May was 3.5 times higher amount of rainfall, compared to the average monthly value, which were extradited to the ground saturated with water of earlier rainfall. Precipitation caused reactivation of the old and the emergence of new landslides, even on slopes where previously were not registered. Extremely high rainfalls are a major cause of destabilization of slopes, but also negative anthropogenic activity in space. Landslides have caused significant material damage, particularly on the residential slope zone of the city and suburbs.

Key words: *precipitation, anomalies, variability of rainfall, floods, landslides, natural disasters, Tuzla*