



Analysis on the Effects of Flood Damage Mitigation in Coastal City according to Coastal Structure Construction : focusing on Busan-Si Marin City in South Korea

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Recently, as sea level rise and rainfall increase due to climate change, Urban development in the coastal area has caused multiple flood damages in coastal cities with a mixture flood mitigation as well as wave overtopping. flood damage of coastal floods that occur continuously in the coastal area is the main cause of flood mitigation rather than wave overtopping when a typhoon occurs. coastal structures that can reduce the flood damage of coastal cities due to wave overtopping include breakwaters and tetraport located near the coast. but, tetraport are facilities to reduce the impact of waves, it is not a facility to reduce flood damage. in this study, the reduction effects of depending on flood damage area and expected damages cost before and after installation of breakwaters were analyzed for Marine City located on the coast of Busan

Acknowledgement

This research was supported by a grant [MPSS-NH-2015-77] through the Disaster and Safety Management Institute funded by Ministry of Public Safety and Security of Korean government.