

Fig. 14: Time series of water surface displacement near the coast:
 comparison between (a) measured and (b) calculated
 target points for photograph analysis.

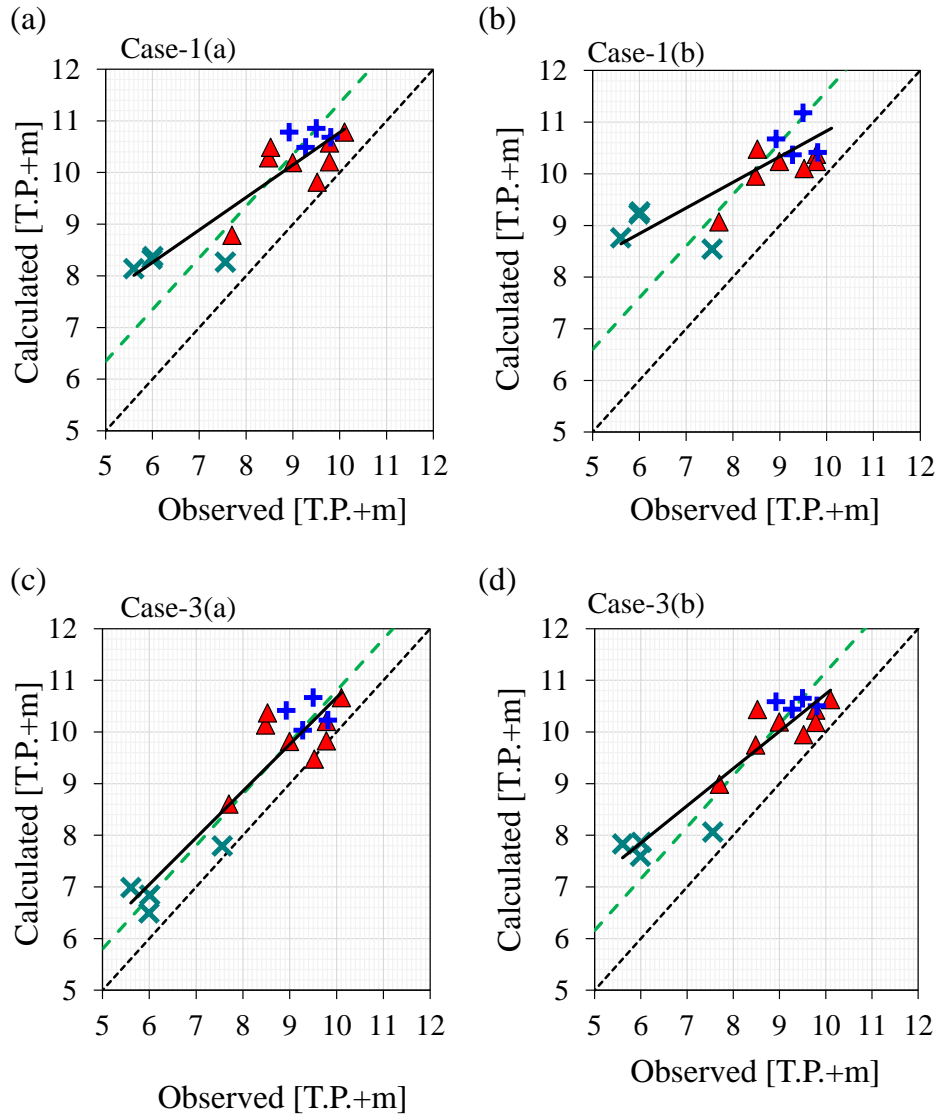


Fig. 15: Comparison between calculated and measured maximum heights. Symbols are the same as those used for Fig. 11:

- (a) Case-1(a) – $C=0.0$, buildings before tsunami;
- (b) Case-1(b) – $C=0.0$, buildings after tsunami;
- (c) Case-3(a) – $C=0.01$, buildings before tsunami;
- (d) Case-3(b) – $C=0.01$, buildings after tsunami.

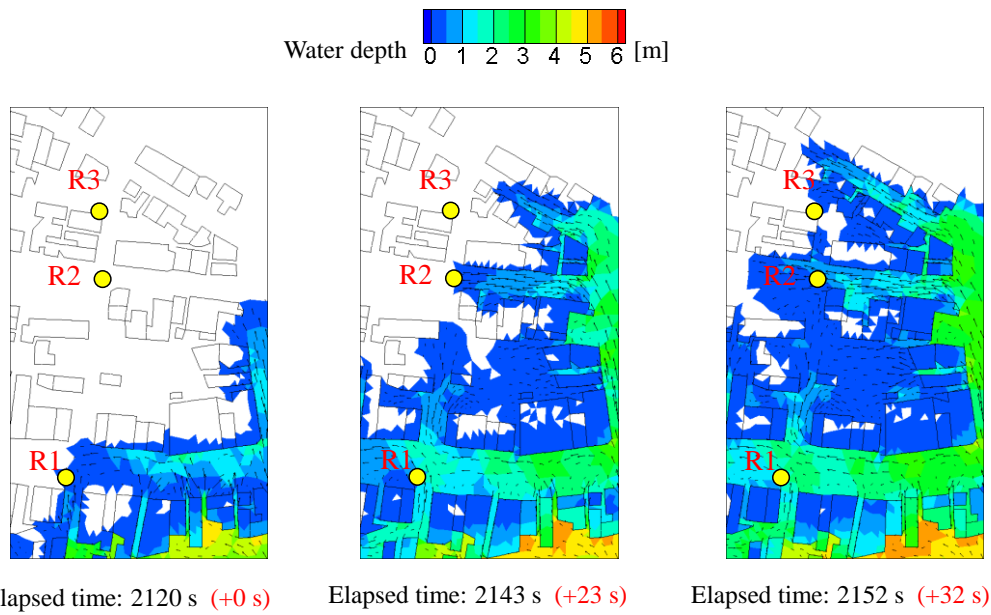


Fig. 16: Calculated wavefront propagation corresponding to the measured values in Fig. 13.

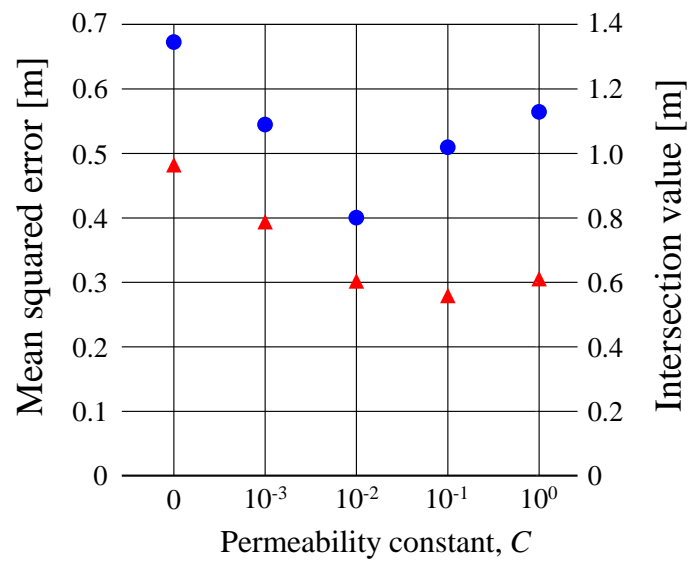


Fig. 17: Degree of regression by 1:1 slope line:

▲, mean squared error; ●, intersection value (difference from perfect agreement).

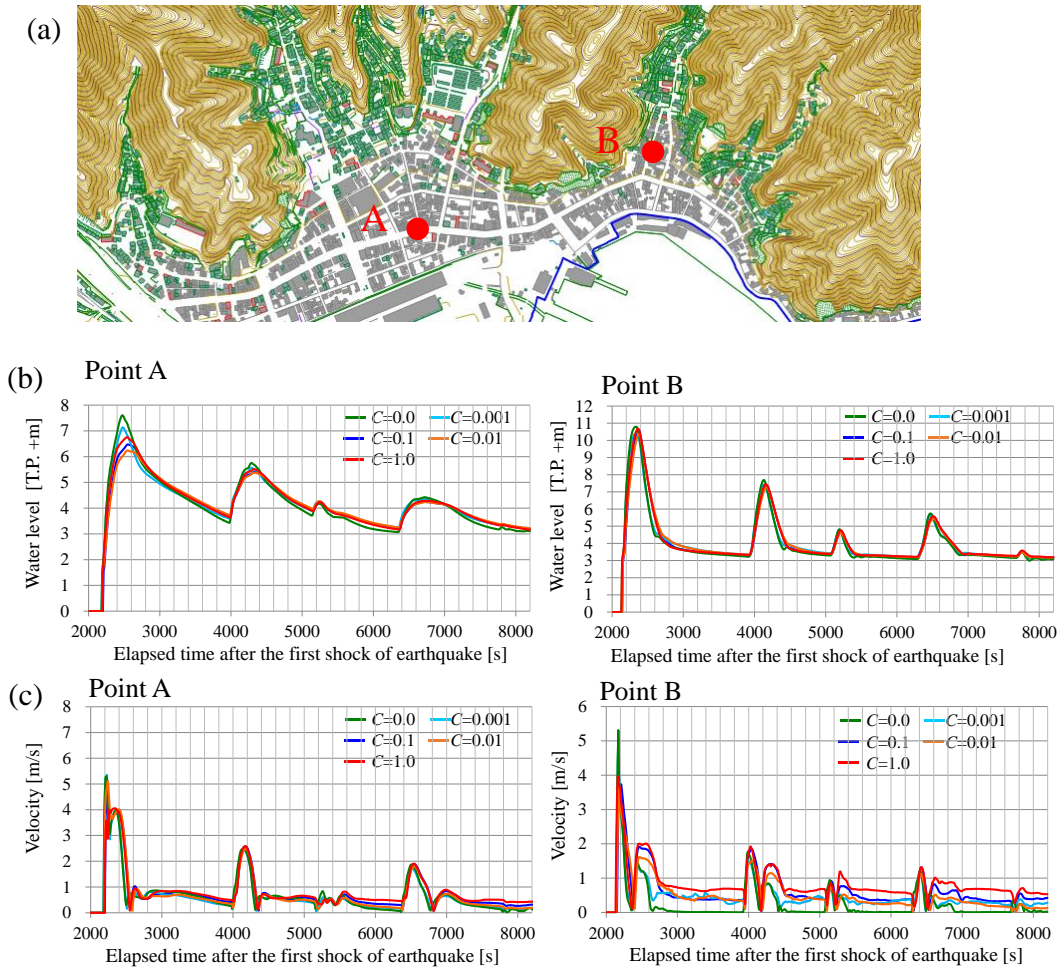


Fig. 18: Time series of flow variables at the city center:
 (a) examination point, (b) water depth, and (c) flow velocity.

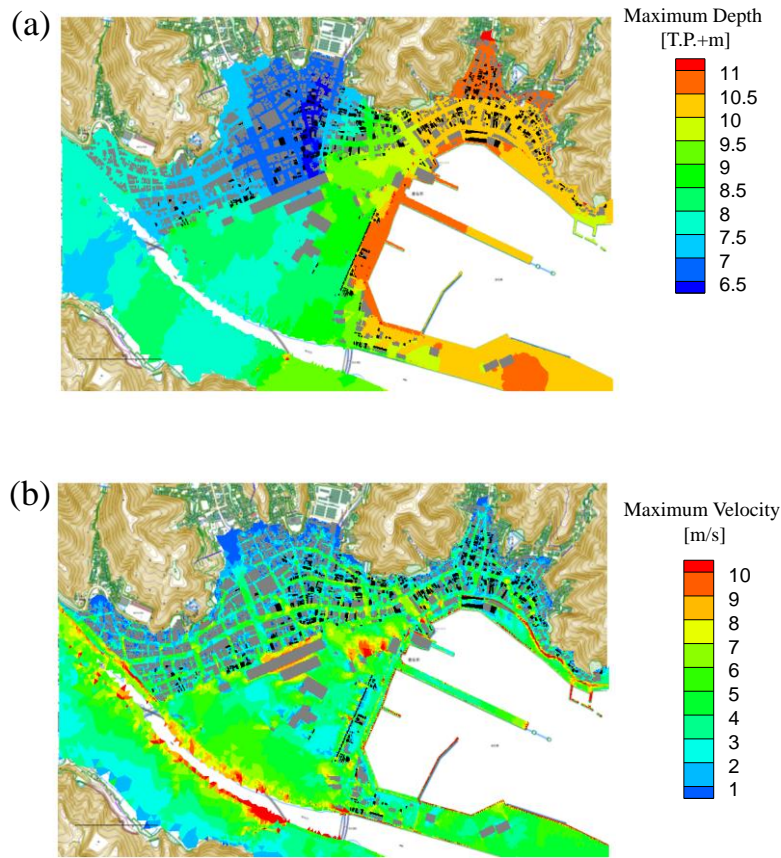


Fig. 19: Mappings of maximum depth and maximum flow velocity during flooding (Case-3(a)):
 (a) maximum depth and (b) maximum velocity.

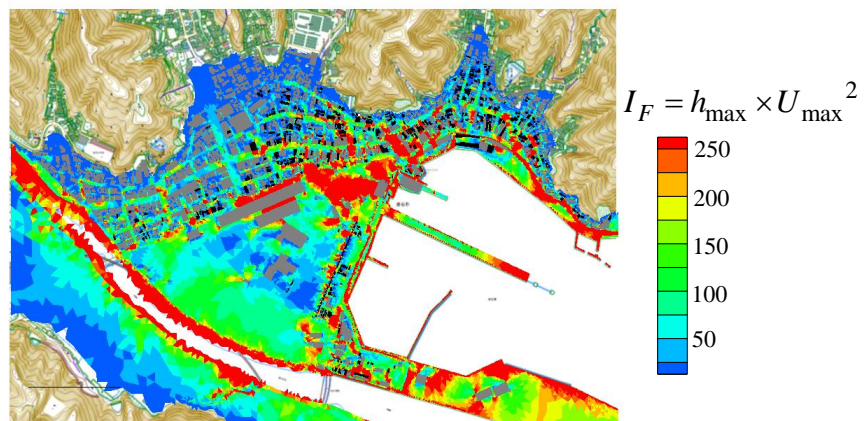


Fig. 20: Z-value mapping for the original building array ($C = 0.01$).

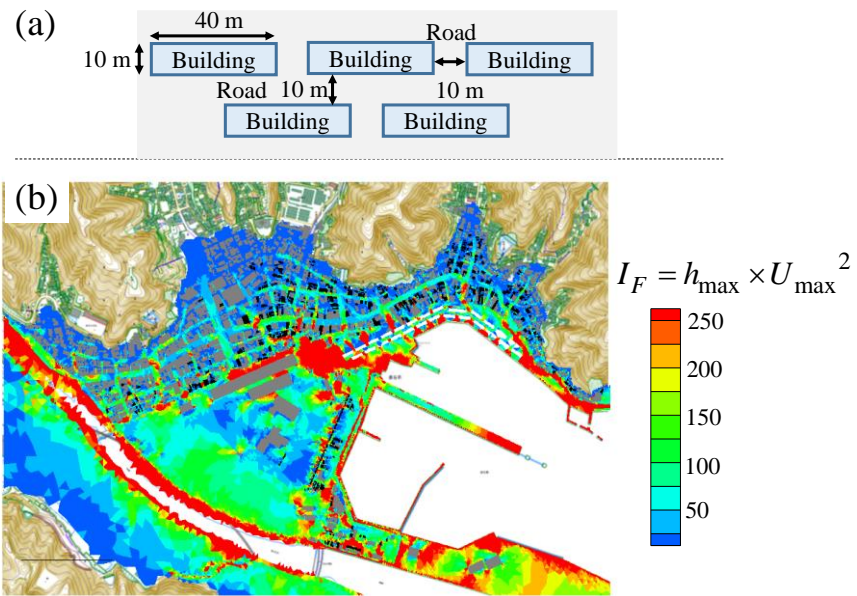


Fig. 21: Z-value mapping for the testing building plot ($C = 0.01$):
 (a) building plot and (b) Z-value mapping.