

Analysis of tidal level and flood wave composite probability

LISHI LIU¹, JIAPENG HUA¹, YONGJIN LU² & XIANGCHENG YU²

1 State Key Laboratory of Hydrology, Water Resources and Hydraulic Engineering, Hohai Univ., Nanjing 210098, China
sdrliz@21cn.com

2 Shanghai Water Engineering Design and Research Institute, Shanghai 200063, China

Abstract In this paper, a study on the composite probability of the highest tidal levels and flood waves occurring is presented. By using statistical tests, a comparison of parameters and design values was made for three methods, i.e. composite parameters, composite probability and the criterion method. Then a more reasonable method was recommended to provide essential technical support for the planning of long-term flood prevention, the constitution of specific flood control measures and disaster evaluation.

Key words composite parameter; composite probability; tidal level; wave
