

Fig. 1 Location and basic characteristics of Wangmaogou

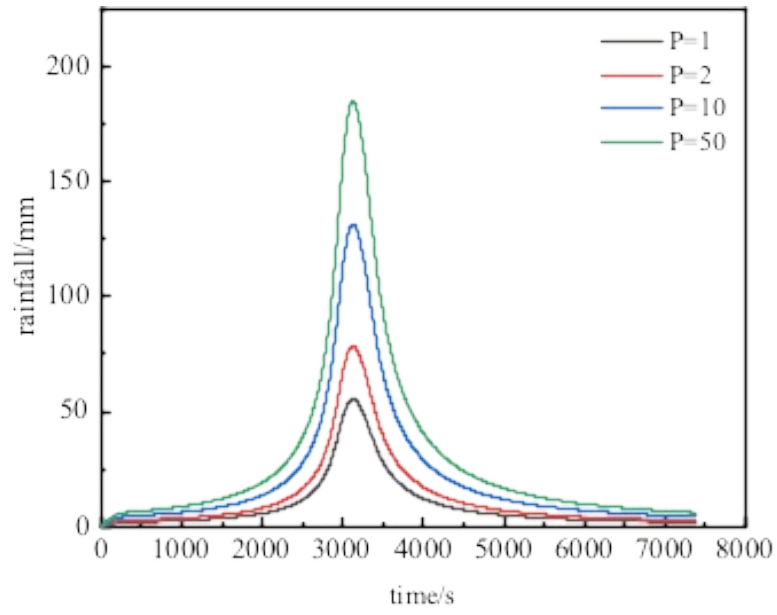


Fig. 2 Rainfall at the different frequencies

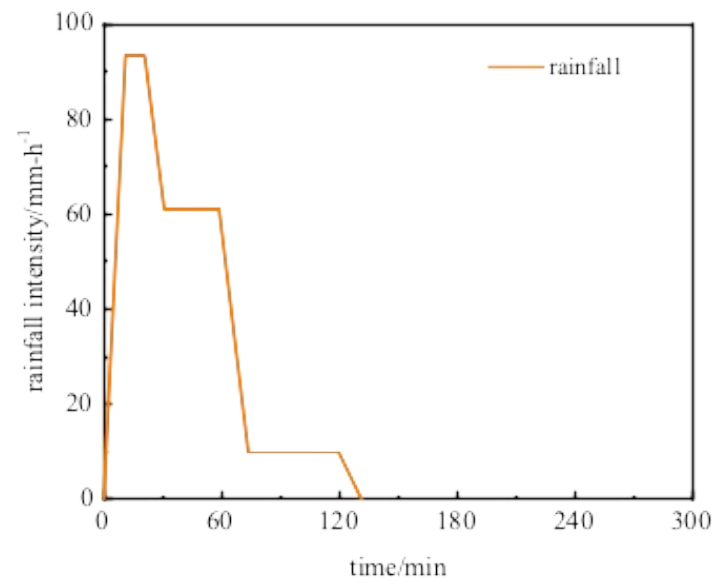


Fig. 3 Rainfall process in the study area

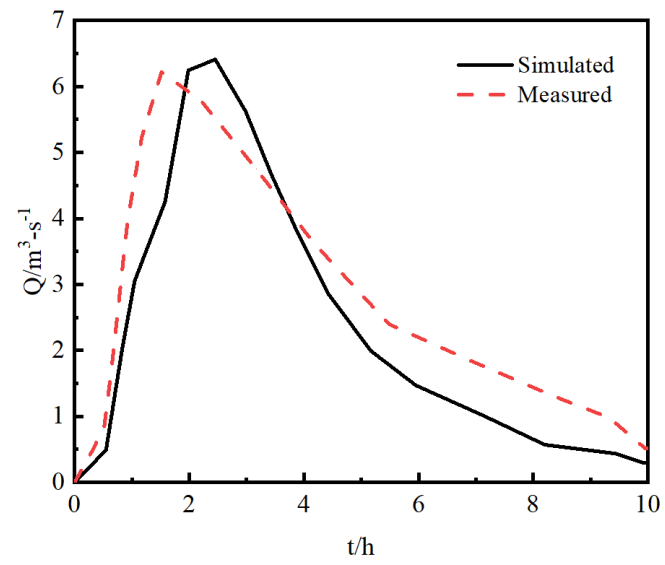


Fig. 4 Comparison of the observed and simulated discharge processes

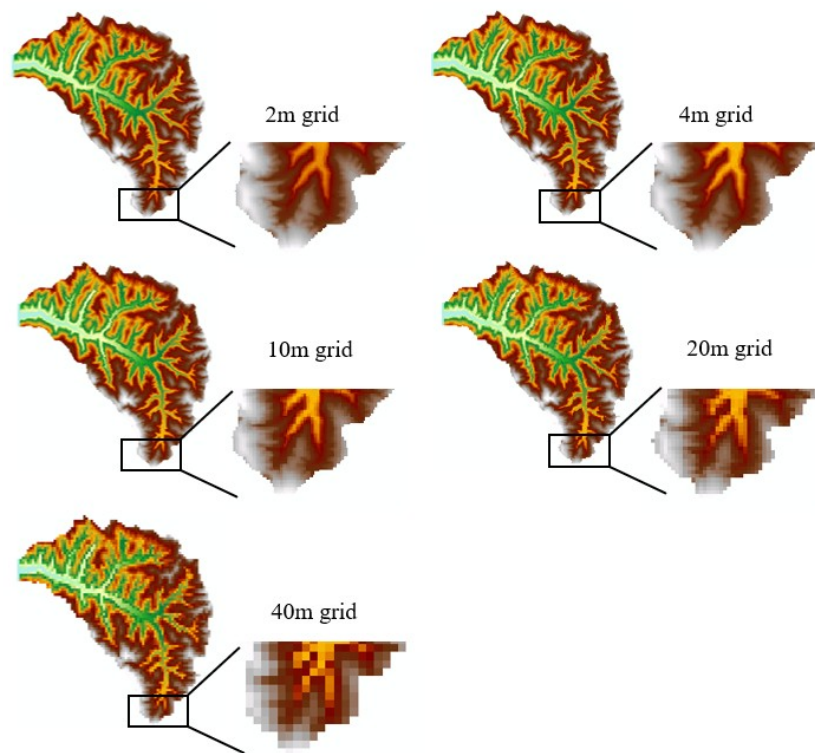


Fig. 5 Comparison of the computational regions with the different resolutions

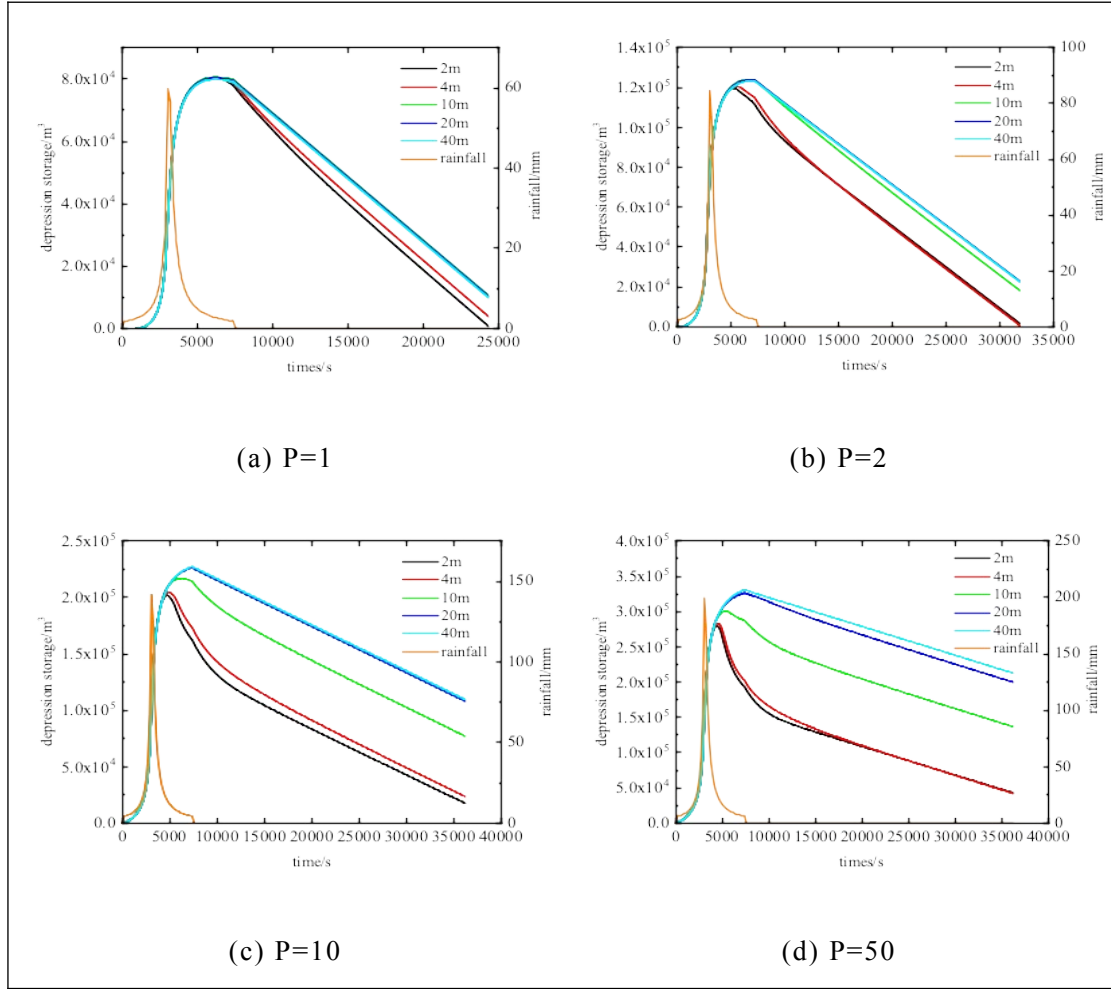


Fig. 6 Effect of the different DEM spatial resolutions on DS

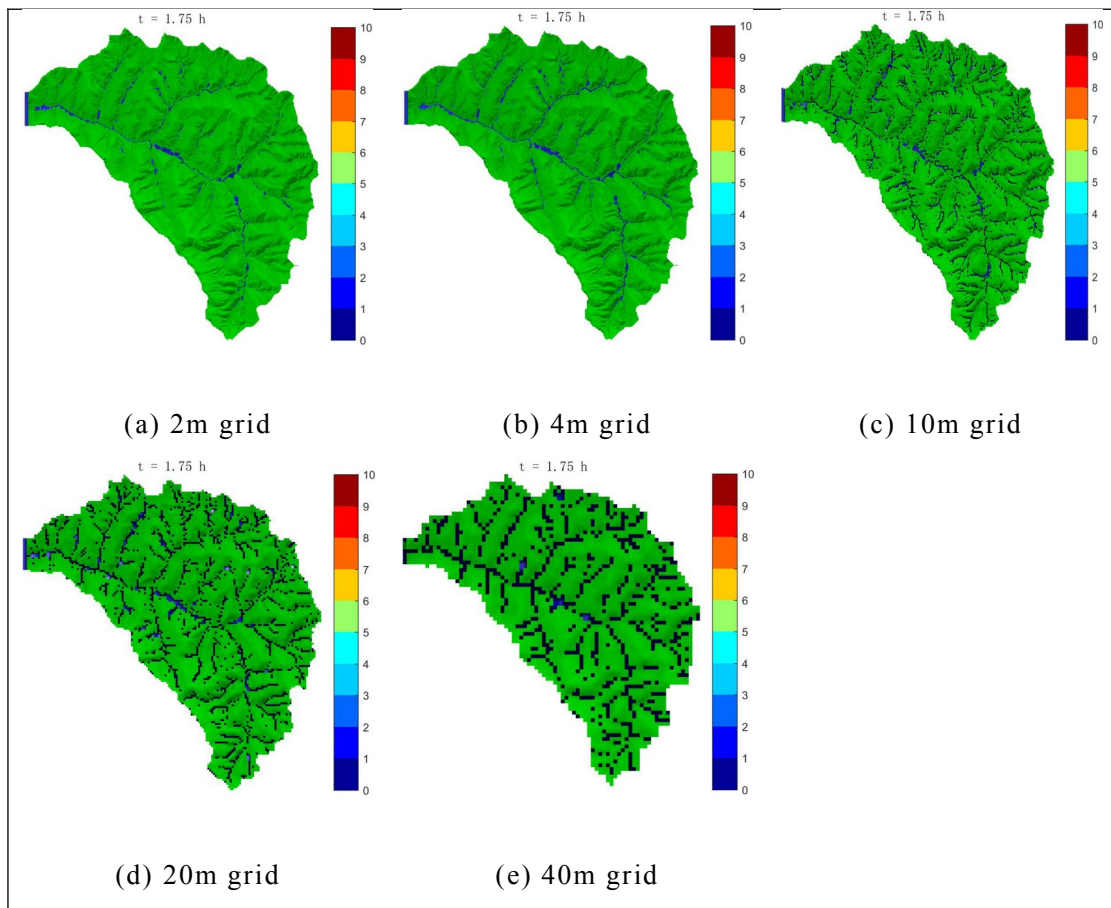


Fig. 7 Corresponding time of maximum storage and DS distribution ($P=1$)

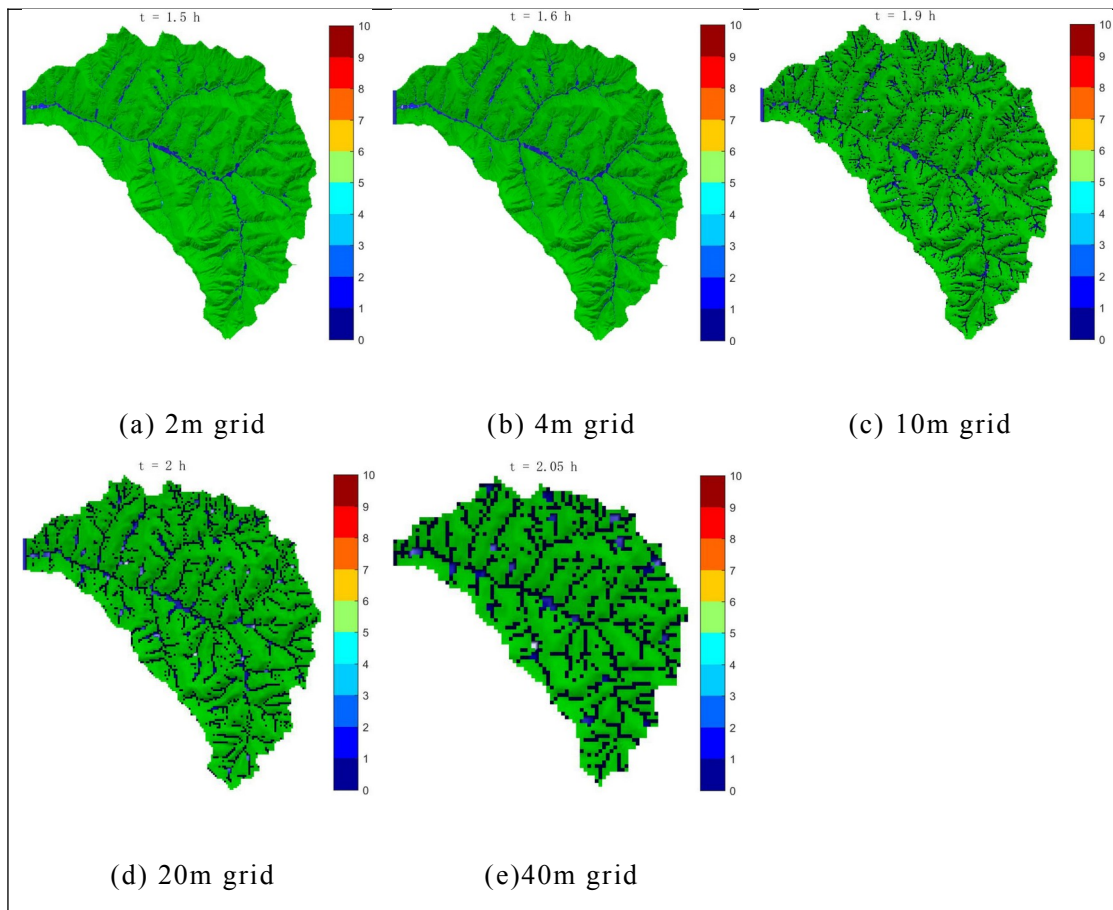


Fig. 8 Corresponding time of maximum storage and DS distribution (P=2)

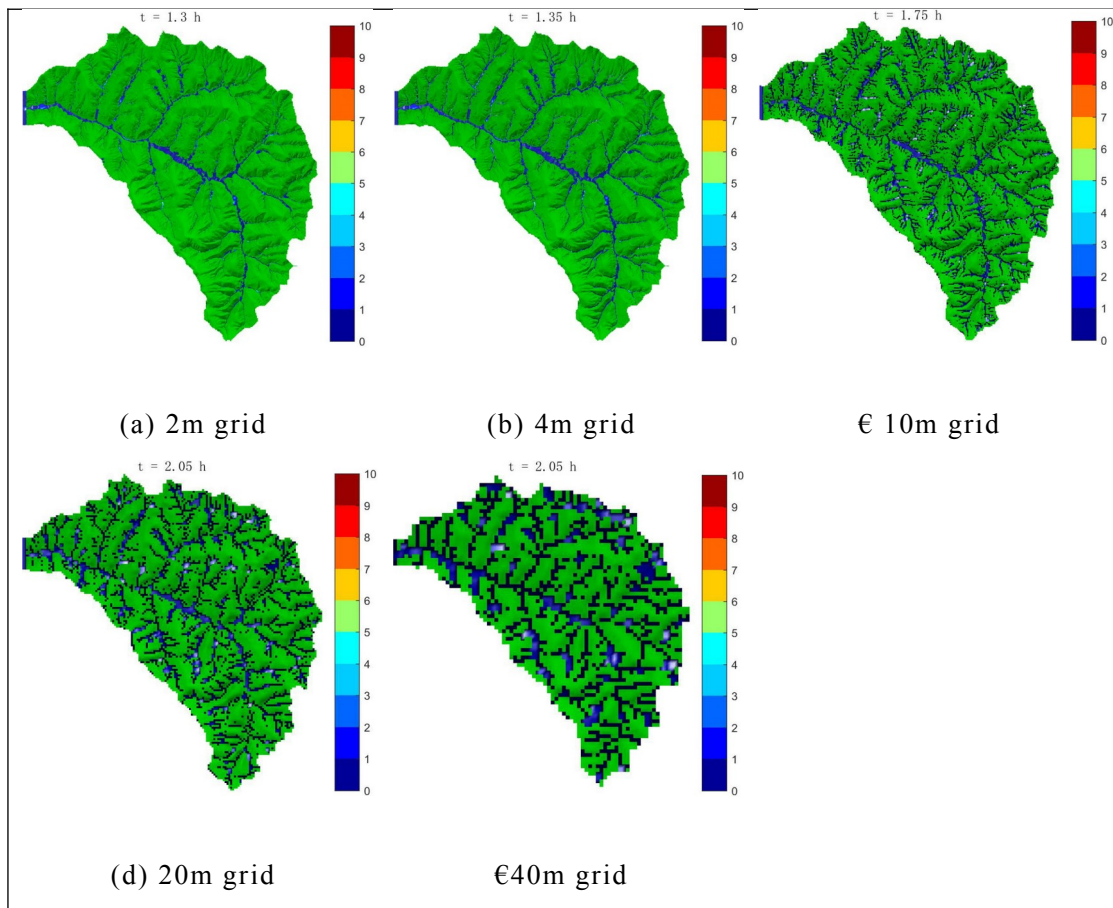


Fig. 9 Corresponding time of maximum storage and DS distribution
($P=10$)

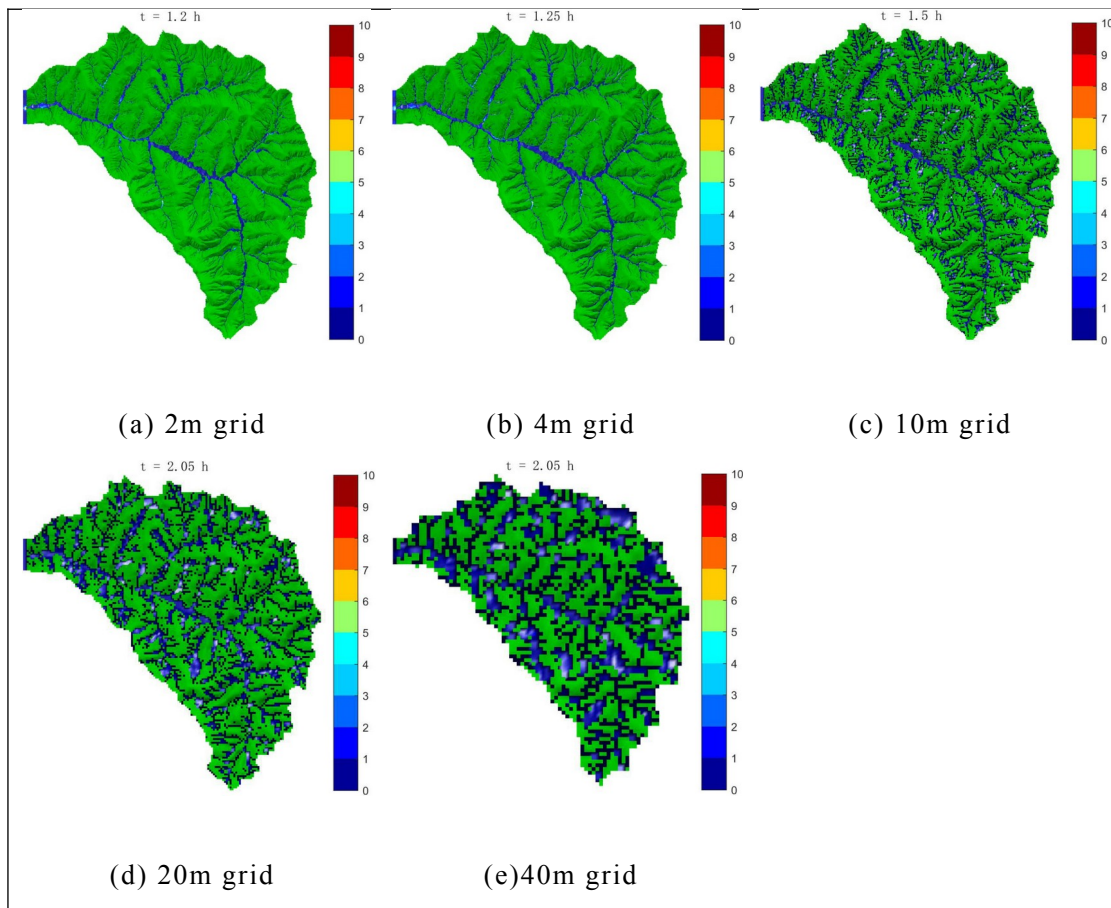


Fig. 10 Corresponding time of maximum storage and DS distribution (P=50)

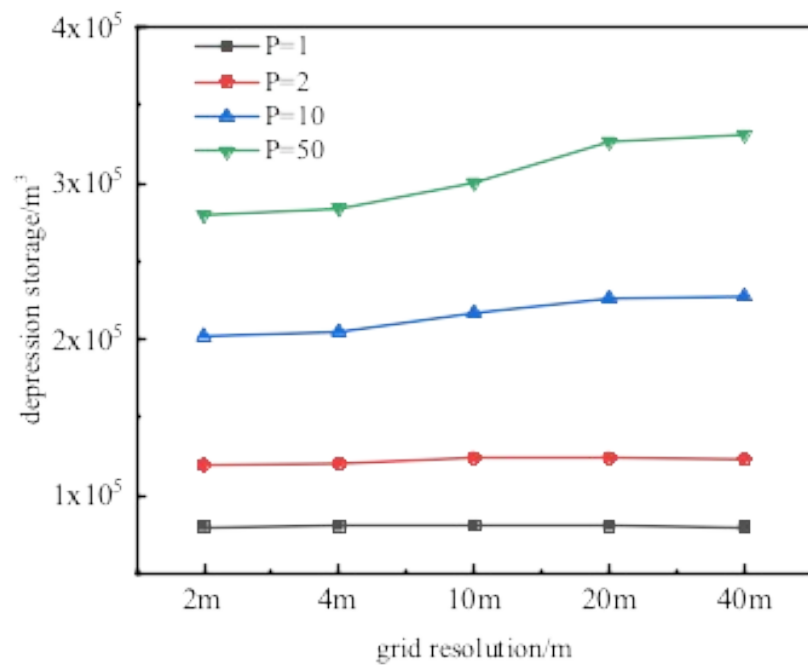


Fig. 11 Change in the maximum DS capacity with the grid resolution in the overall study area under infiltration

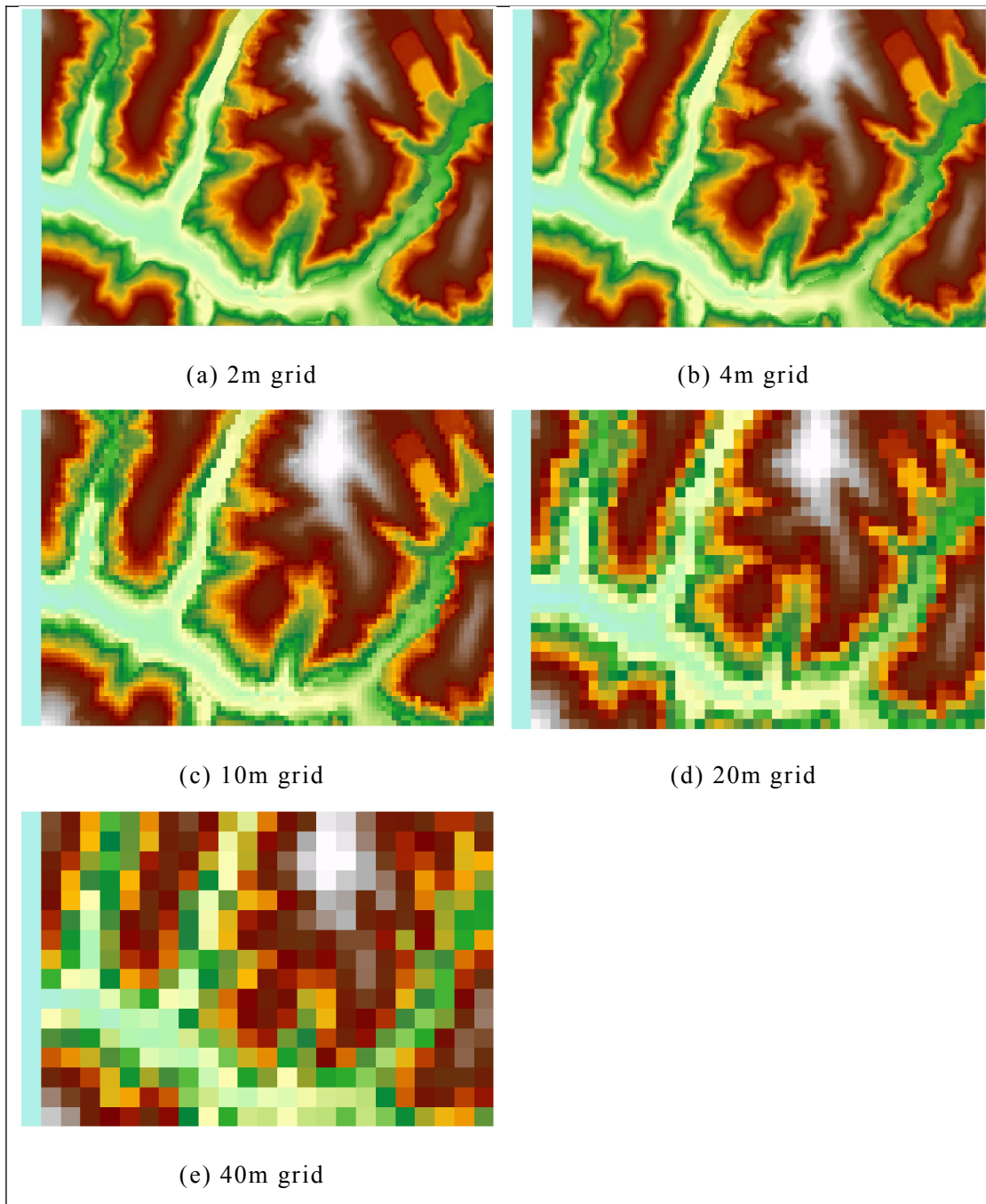


Fig. 12 Comparison of the computational regions with the different resolutions

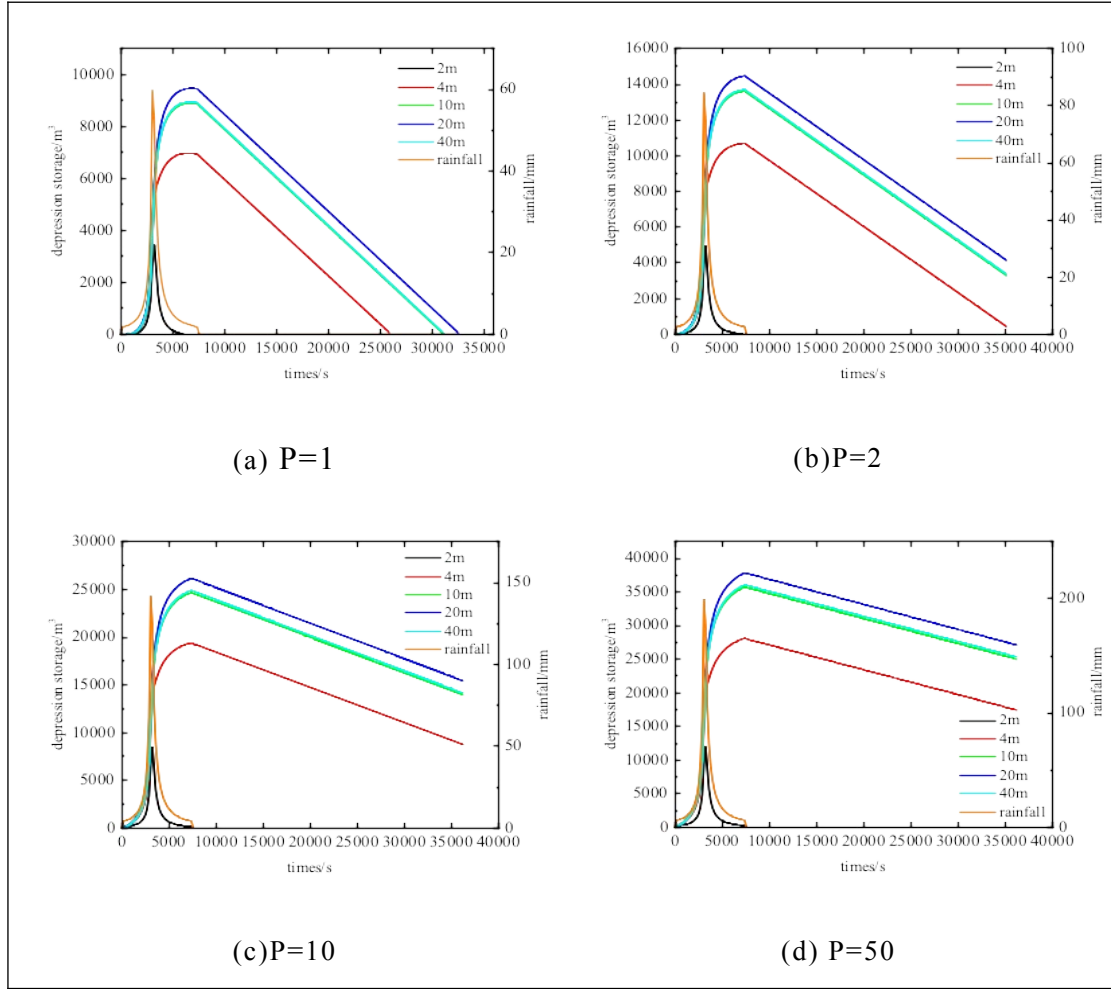


Fig. 13 Effect of the different DEM spatial resolutions on DS

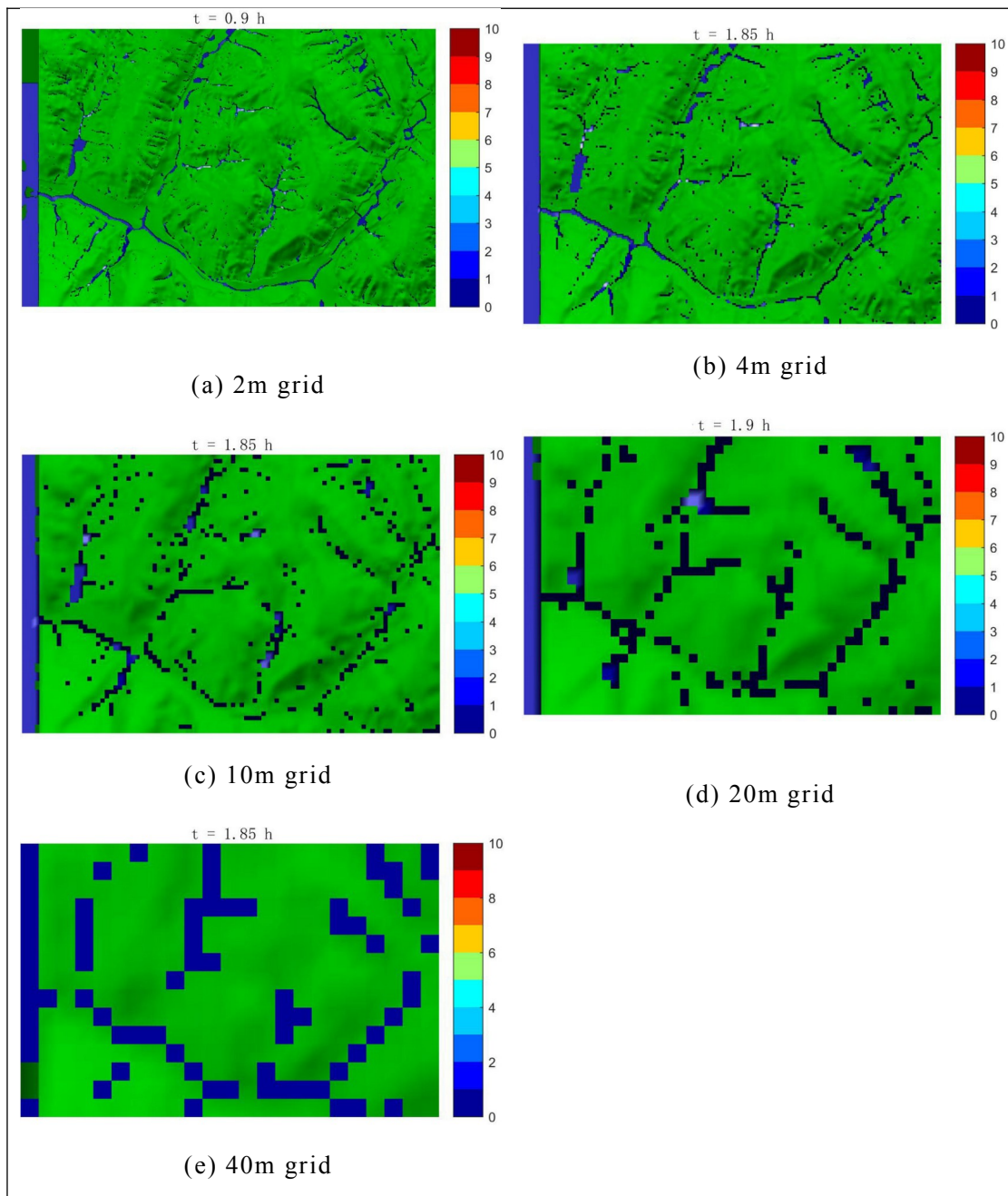


Fig. 14 Corresponding time of maximum storage and DS distribution (P=1)

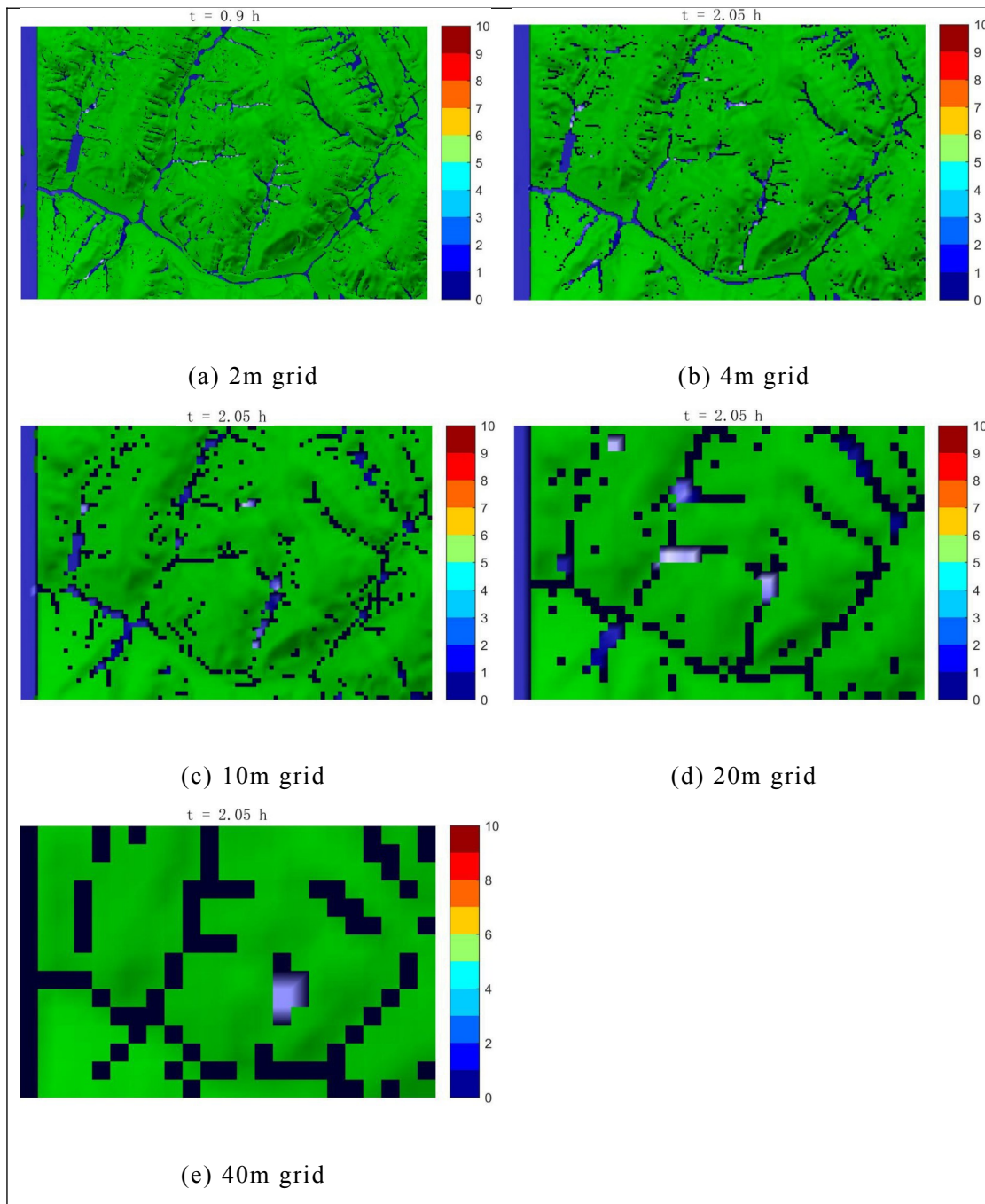


Fig. 15 Corresponding time of maximum storage and DS distribution
(P=2)

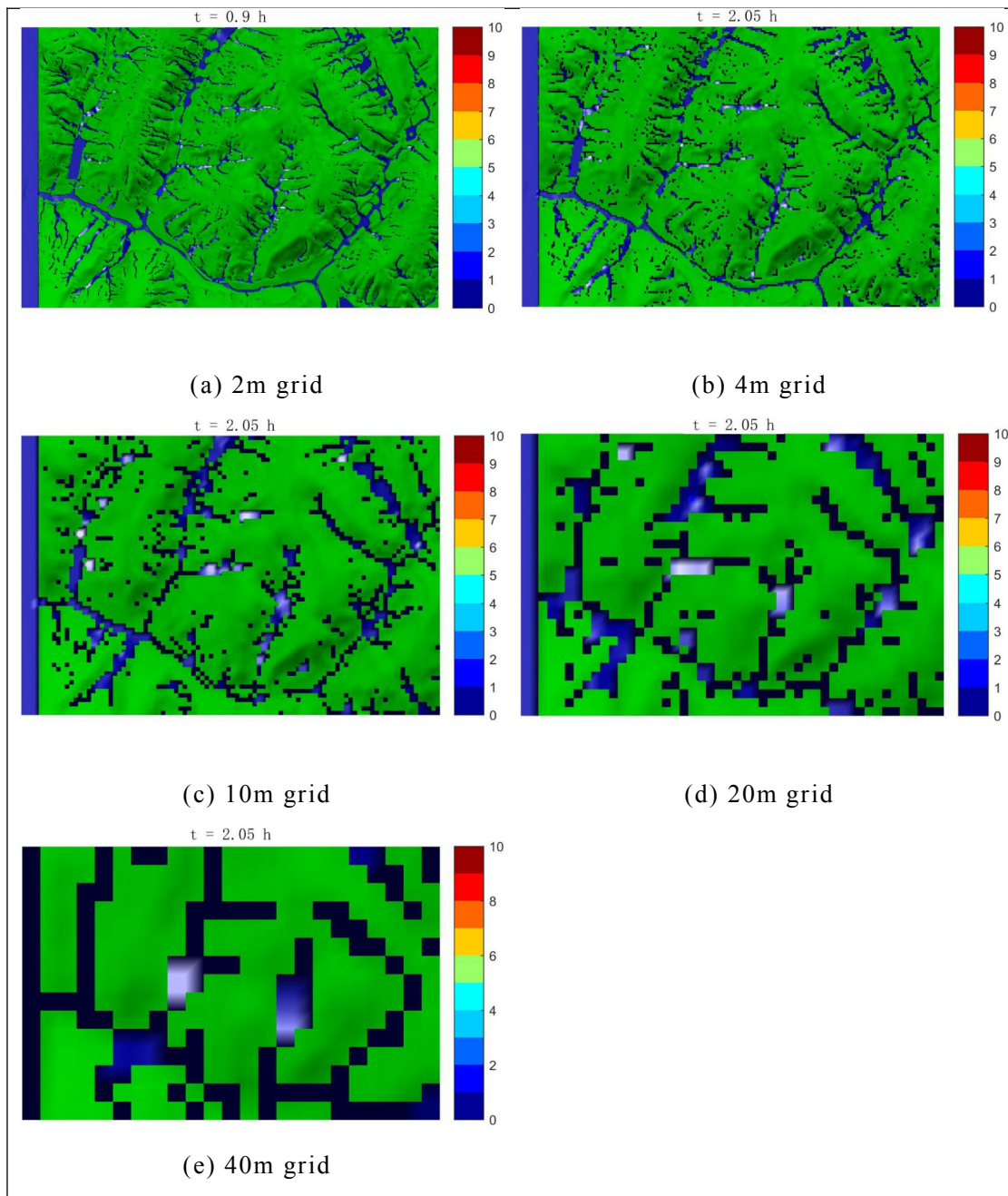


Fig. 16 Corresponding time of maximum storage and DS distribution
(P=10)

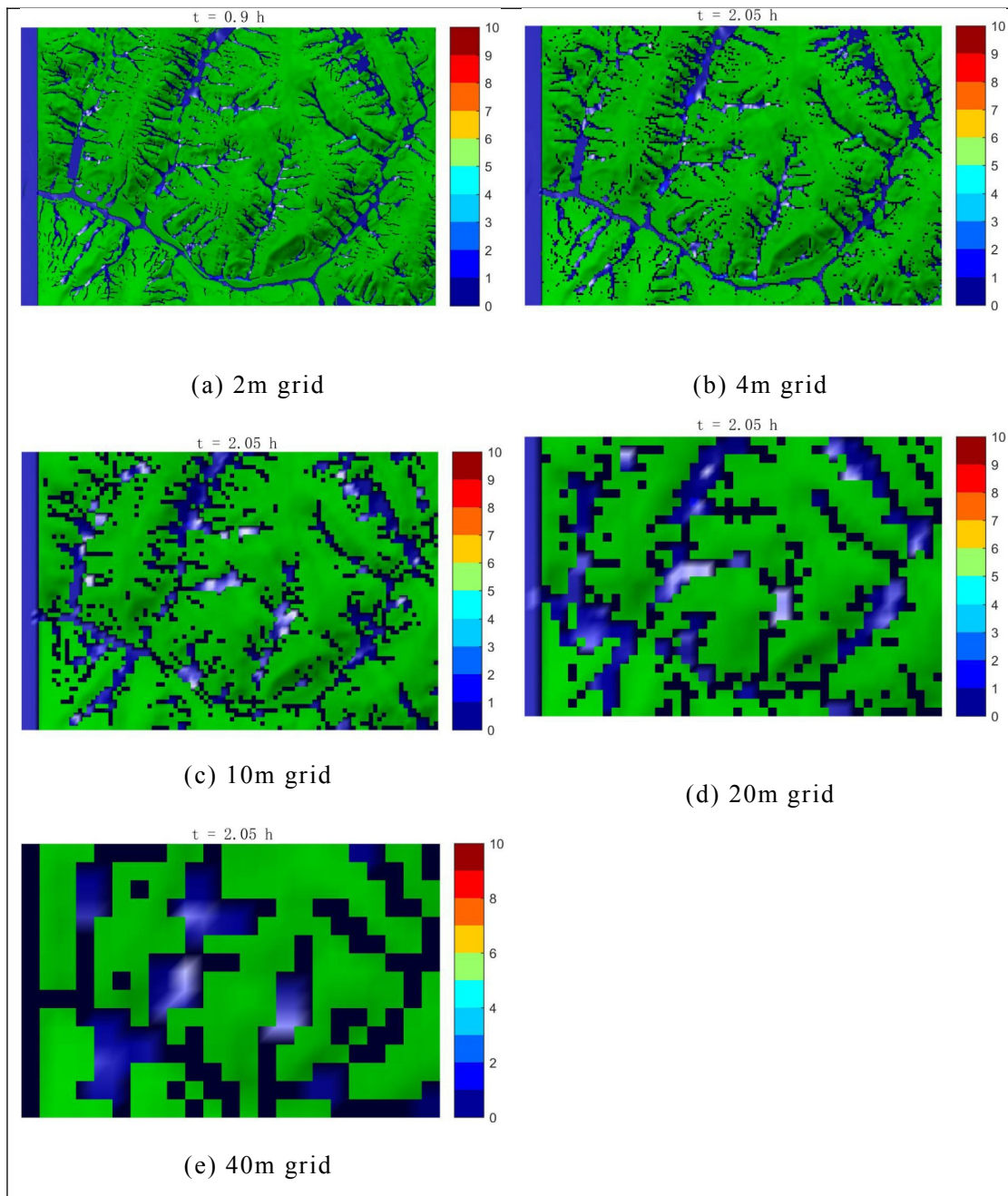


Fig. 17 Corresponding time of maximum storage and DS distribution (P=50)

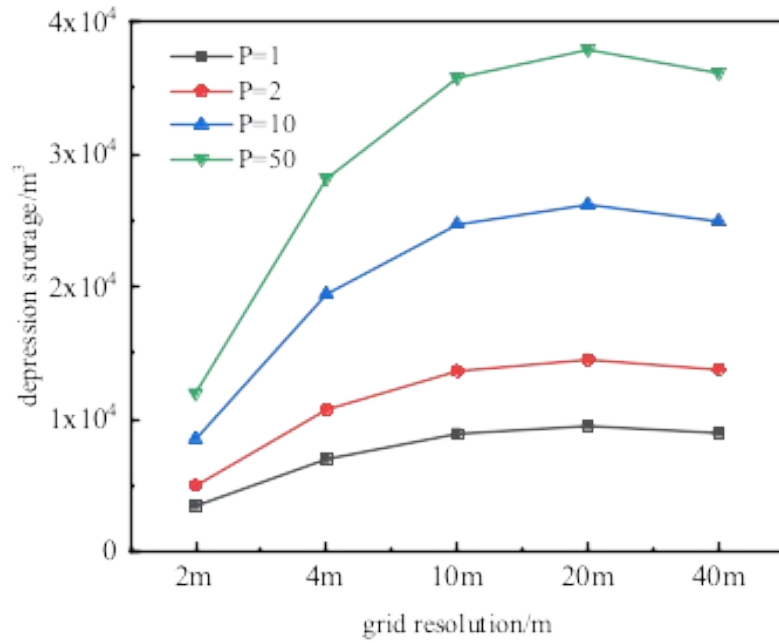


Fig. 18 Change in the maximum DS capacity with the grid resolution in the local study area under infiltration

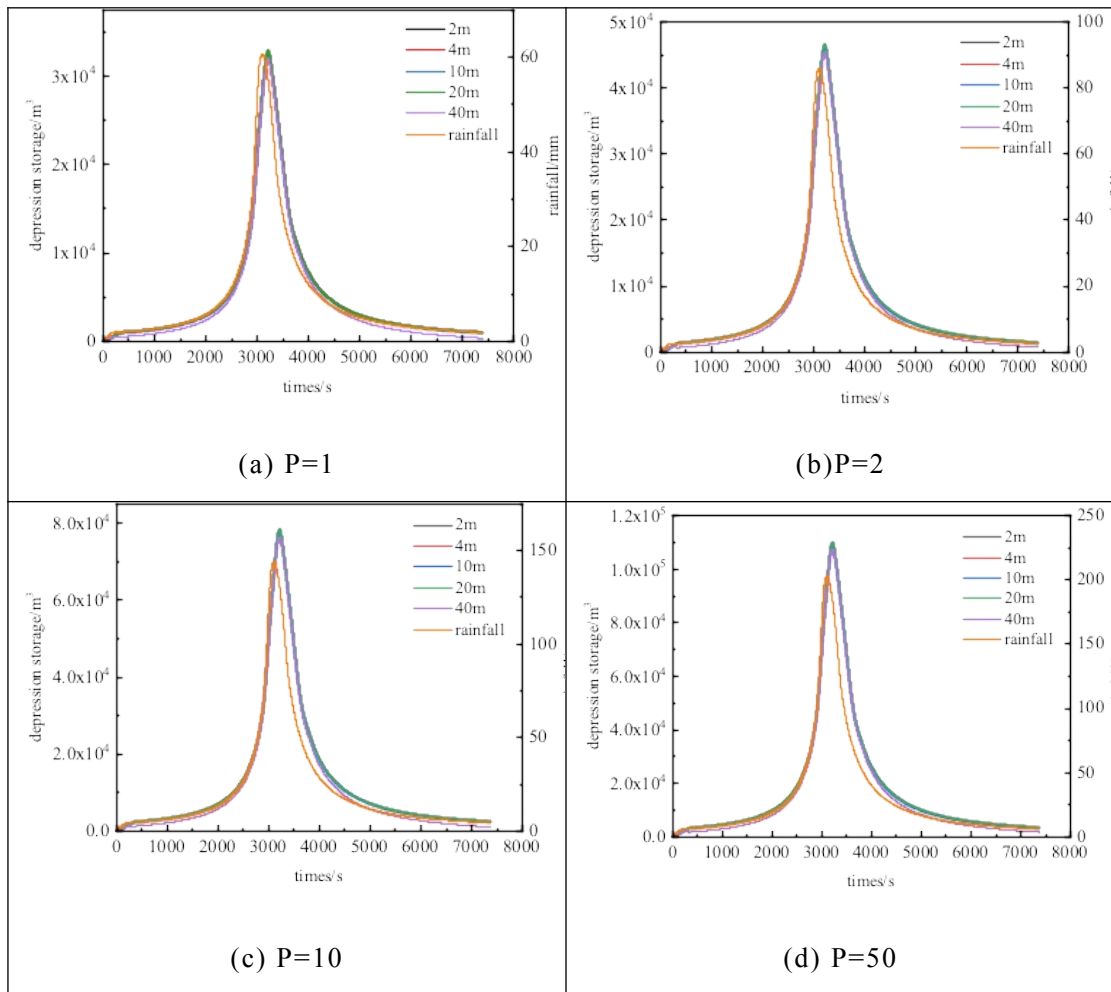


Fig. 19 Effect of the different DEM spatial resolutions on DS

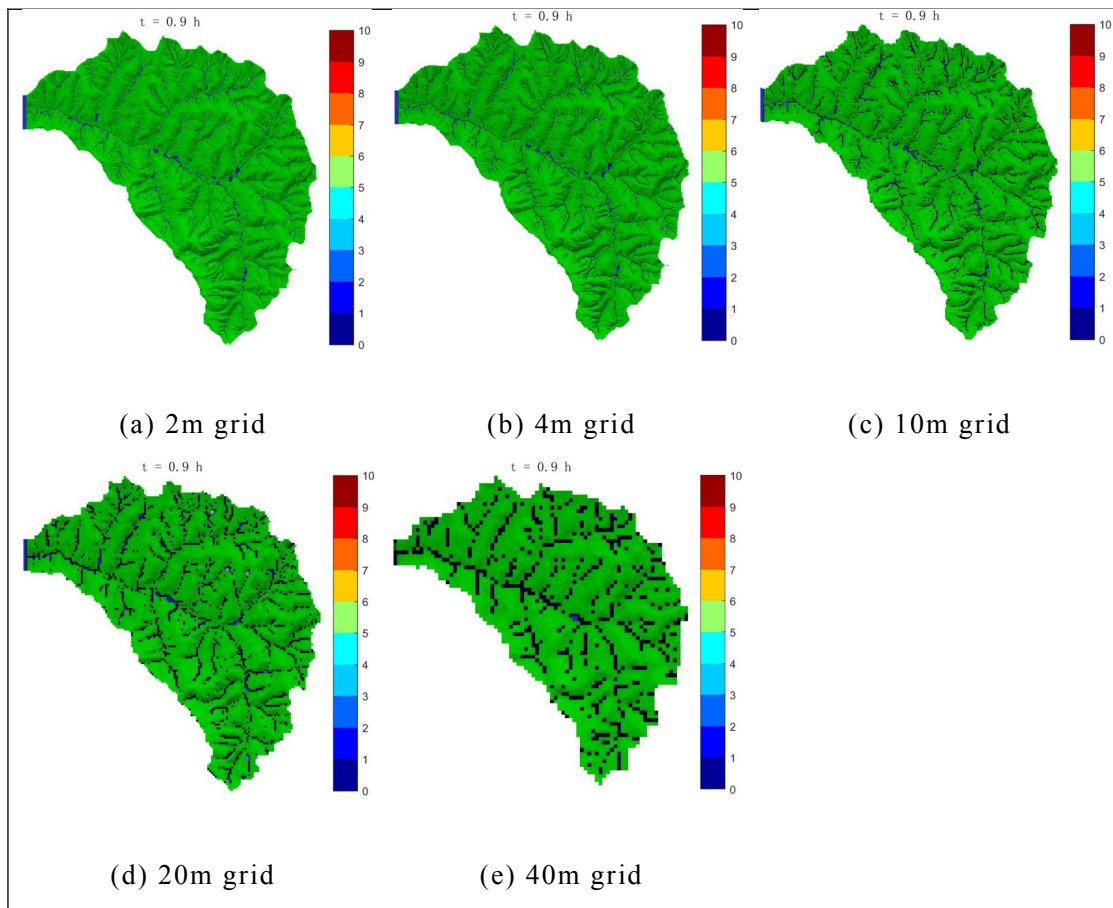


Fig. 20 Corresponding time of maximum storage and DS distribution ($P=1$)

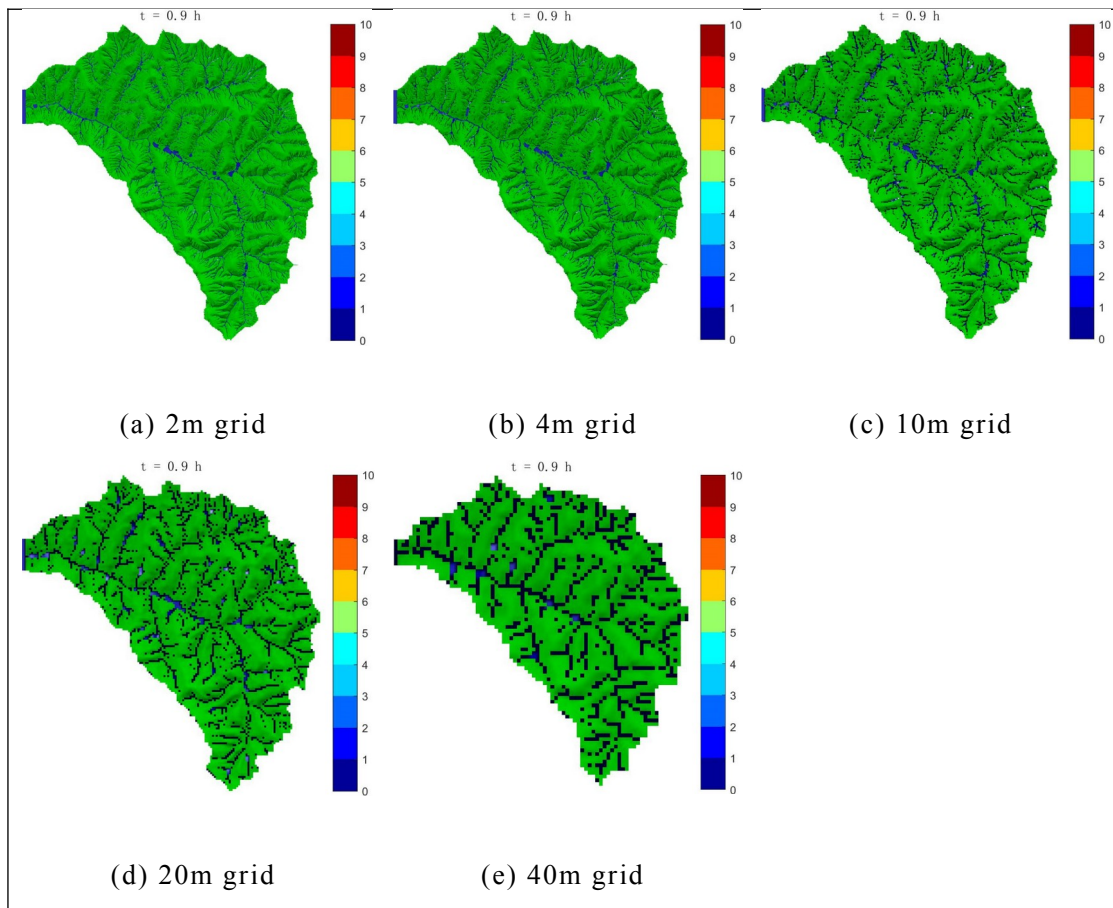


Fig. 21 Corresponding time of maximum storage and DS distribution ($P=2$)

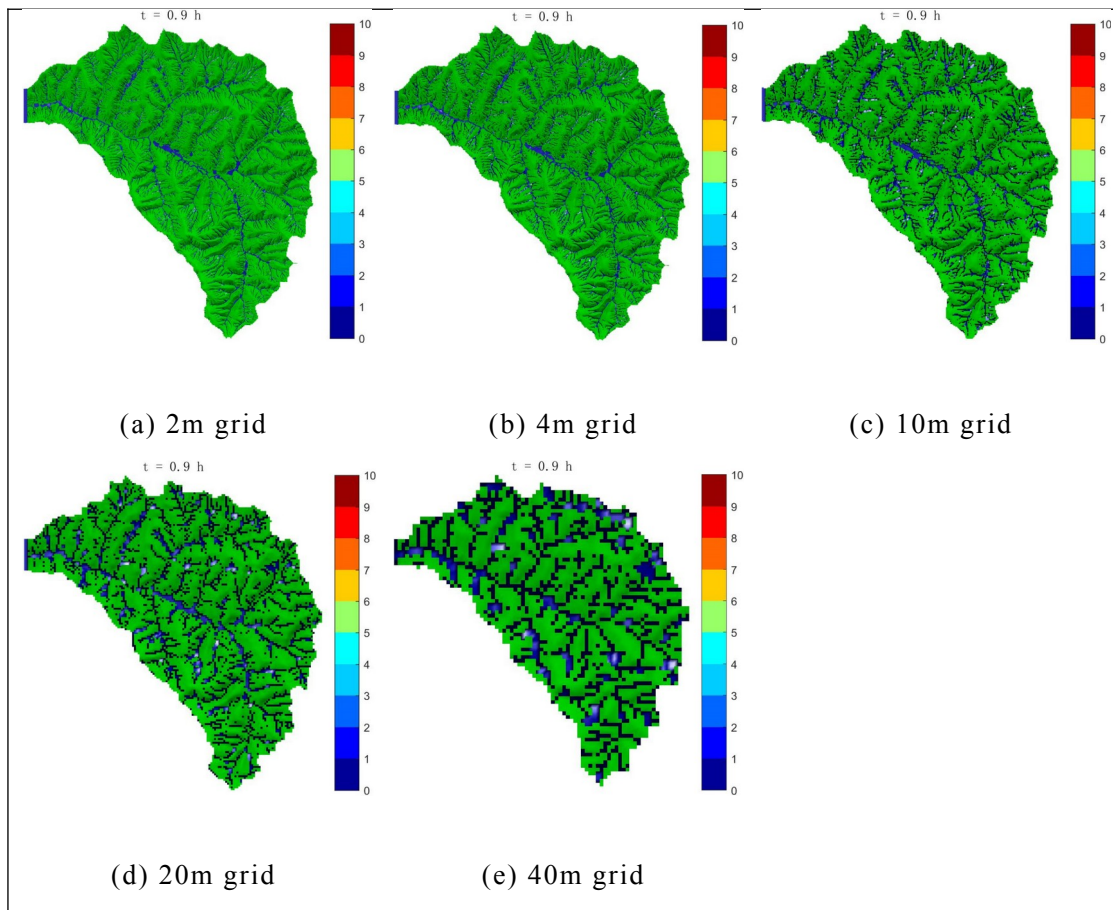


Fig. 22 Corresponding time of maximum storage and DS distribution (P=10)

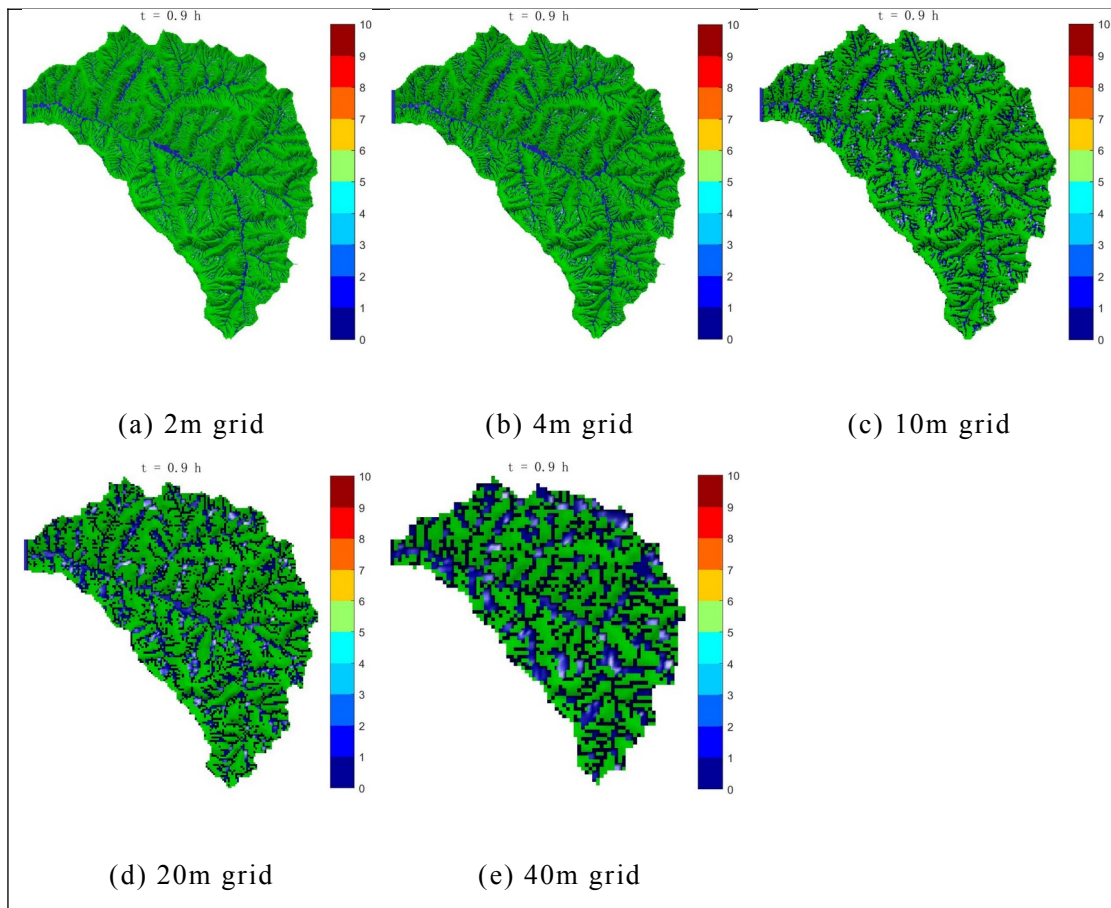


Fig. 23 Corresponding time of maximum storage and DS distribution ($P=50$)

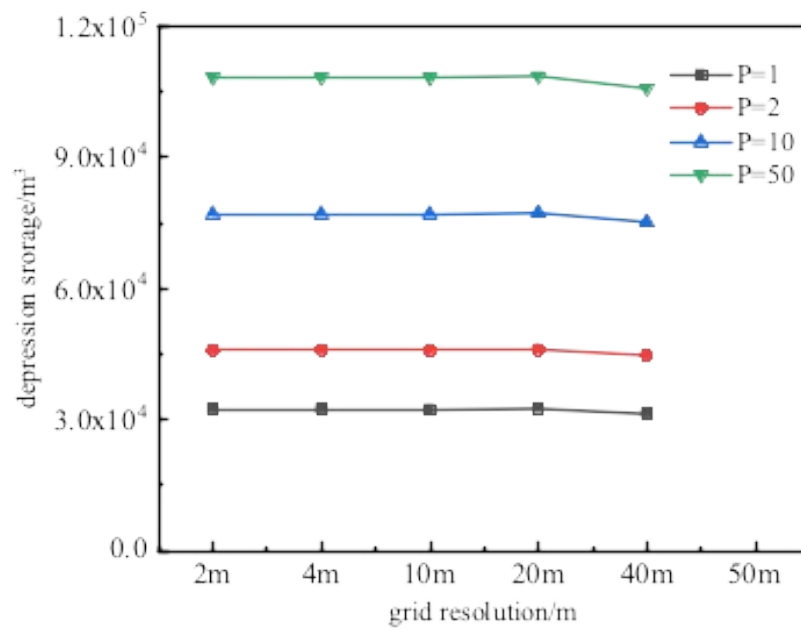


Fig. 24 Change in the maximum DS capacity with the grid resolution in the overall study area without infiltration