Natural Hazards
and Earth System
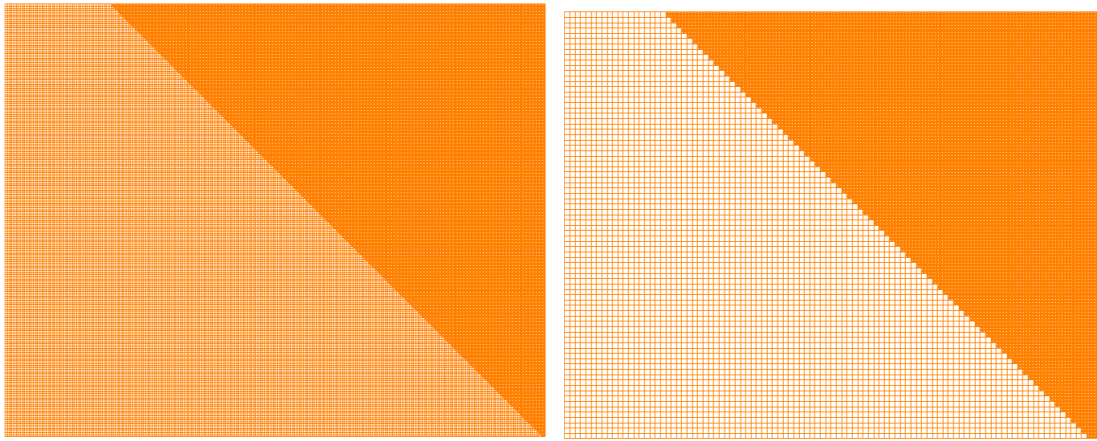Sciences

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An improved dynamic bidirectional coupled hydrologic–hydrodynamic model for efficient flood inundation prediction
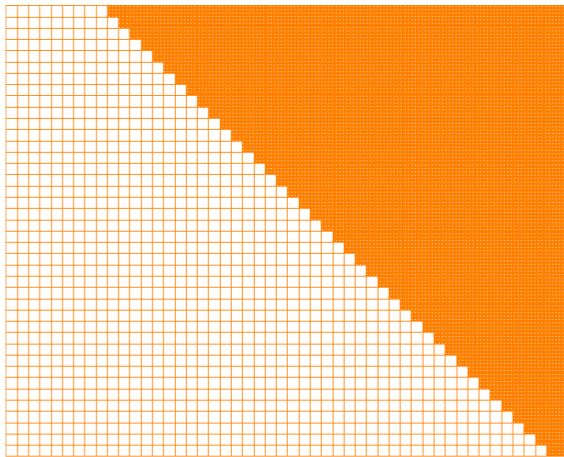
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(a)   (b)

(c)

Figure S1 Grid partition of the cases described in Section 3.1: (a) case12, (b) case15
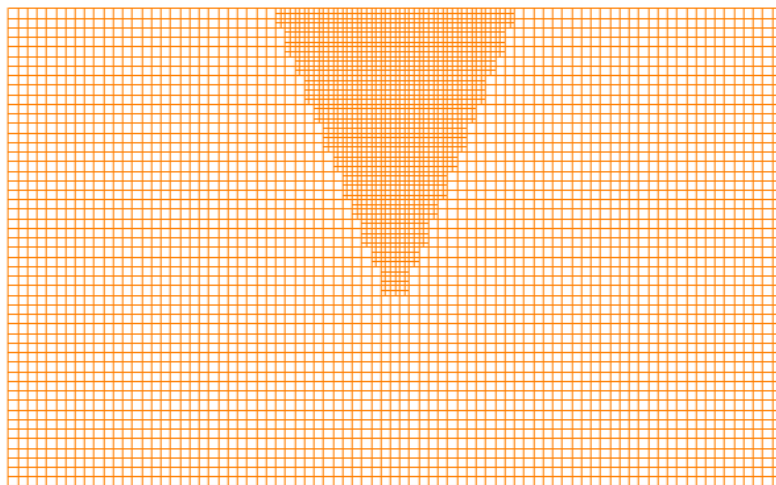
and (c) case10

Figure S2 Grid partition of the example described in Section 3.2

$t = 0$ h

$t = 1$ h

$t = 2$ h

$t = 3$ h

$t = 4$ h

$t = 5$ h

Rain (mm)

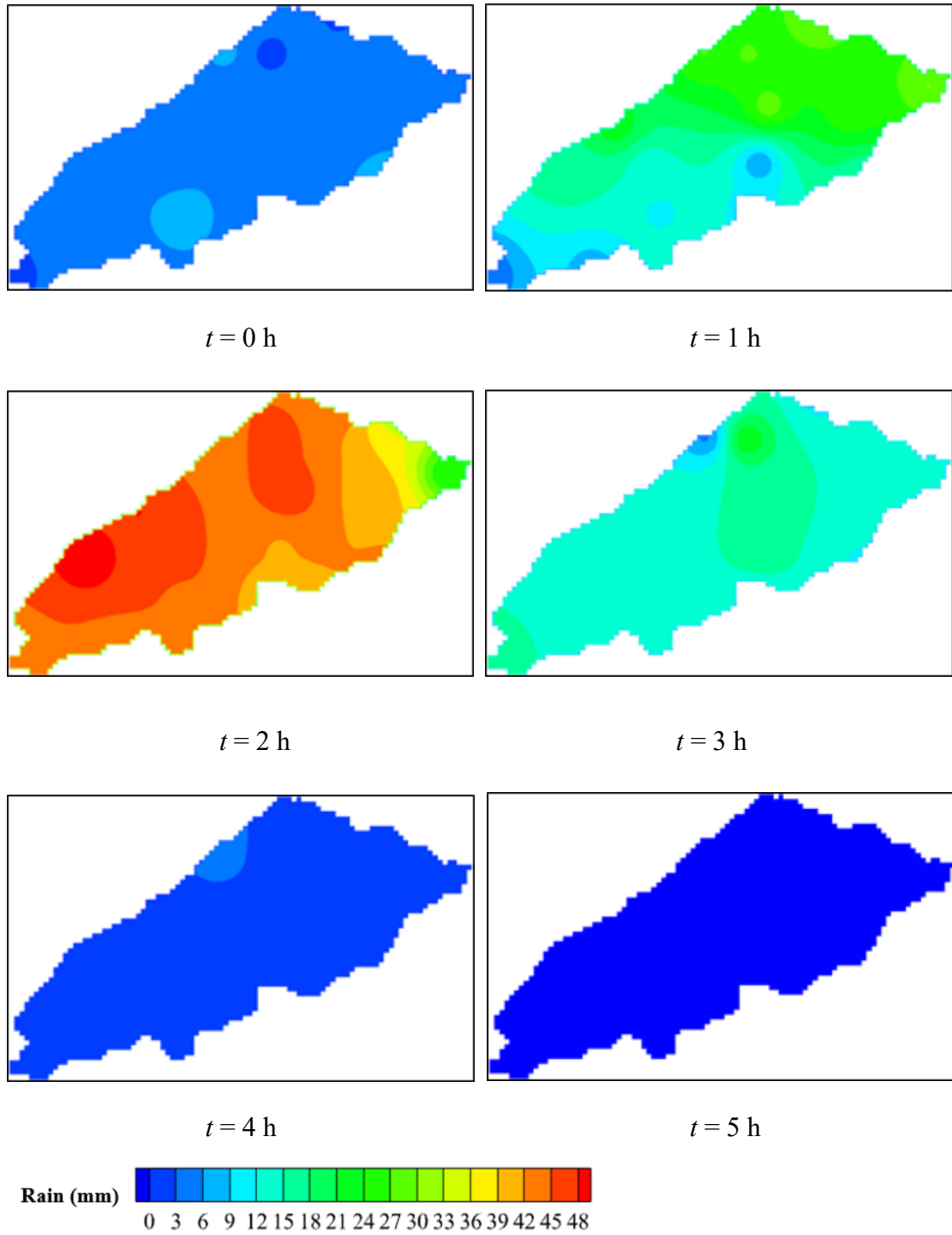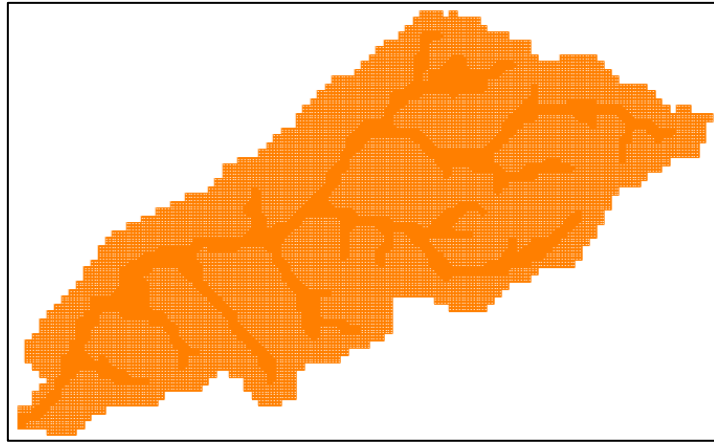0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48
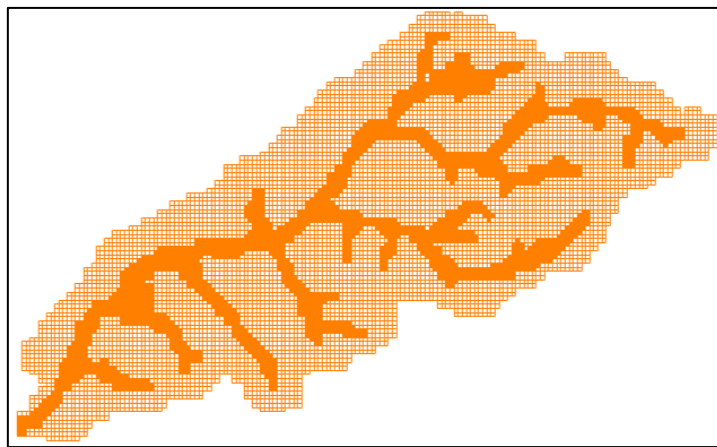
Figure S3 Spatially distribution of rainfall at different times in the Goodwin

watershed

(a)

(b)

(c)

Figure S4 Grid partition of the Goodwin Basin: (a) case12, (b) case15 and (c) case10

Table S1 Locations of six stations in Goodwin Creek Watershed

Stations	Longitude and latitude		UTM projection	
	Latitude (N)	Longitude (W)	X	Y
P1	34.23	89.91	231568.71	3791553.74
P4	34.26	89.87	235367.35	3794280.52
P6	34.27	89.86	236459.33	3795732.93
P7	34.25	89.86	236662.95	3793699.88
P8	34.27	89.84	238577.96	3795483.81
P14	34.25	89.88	234644.40	3793655.02