DATA AVAILABILITY

Evaluation of barrier lake breach floodS: insights from recent case studies in China

By Zuyu Cheny, Qiang Zhang, Shujing Chen, Lin Wang, Xingbo Zhou, 2019, WIERs



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Case	Physics of the parameters	Sub-case	Parameters		Peak flow, Q_n ,	η
			Sensitivity studies	Target case	m³/s	%
A	Hydraulic parameters	A-1	m=0.6, C=1.35		7,829.65	2.89
		A-2	m=0.5, C=1.35	m=0.8, $C=1.43$	7,858.80	3.27
		A-3	m=0.5, $C=1.69$	(4)	8,300.19	9.07
В	Hyperbolic erosion model	B-1	a=1.0,b=0.0005	a=1.1,b=0.0007	9,475.62	24.52
		B-2	a=0.9,b=0.0003		13,524.99	77.73
С	Power erosion model	C-1	$a_i = 8, b_i = 1.2$		7,512.91	-1.28
		C-2	$a_1=10,b_1=1.2$		10,357.93	36.11
		C-3	$a_1=8,b_1=1.3$		15,192.20	99.63
D	Linear erosion model D	D-1	$a_L = 0.3$		20,619.35	170.95
		D-2	$a_t = 0.2$		13,707.17	80.12
		D-3	$a_L = 0.1$		4,769.04	-37.33
E	Shear strength	E-1	c=50, φ=35°	c=25, φ=22°	6,954.75	-8.61
	parameters	E-2	c=10, c=15°		7,413.23	-2.59

Data files for the above cases are contained in ABCD.RAR

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