

Supplementary file 2

Items exposed to flood in Garbey Kourou, Larba Birno, Tallé and Touré (Niger) according risk level

Flood assessment for risk-informed planning along the Sirba river, Niger

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Sustainability – Open Access Journal

Acronyms: E – East, N - North, RP – Return period.

Garbey Kourou, fluvial flood

RP years	Code	Geographic coordinates		Lot	House earth	House concrete	Latrine	Hoven	Granary	Field ha
10	131									0,31
	133									0,14
	137									0,05
	143									0,42
	145									0,54
	146									0,17
10	SUM				0	0	0	0	0	1,63

[illegible]

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	141									0,05
	142									0,03
	143									0,54
	144									0,20
100	SUM			0	17	2	5	1	4	2,56

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Larba Birno, fluvial flood

RP Years	Code	Geographic coordinates	Lot, #	House earth bricks, #	Latrine or shower, #		Granary, #	Fields, ha
10	1							1,01
	3							0,04
	4							0,10
	5							0,75
	6							0,10
	7							0,64
	8							2,75
	76							0,02
	77							1,66
	78							0,10
	79							0,11
	80							1,40
	81							0,1
	82							0,02
	83							0,19
	84							0,26
	85							0,11
	86							0,10
	87							0,10
	88							0,25
	89							0,38
	126							0,12
10	SUM			0	0	0	0	10,31

RP years	Code	Geographic coordinates	Lot, #	House earth bricks, #	Latrine, #	Photovoltaic mini-plant, #	Granary, #	Field ha
30	1							0,10
	2							0,08
	3							0,89
	5							0,30
	6							0,30
	8							7,84
	10							8,30
	11							1,16
	33			1				
	40			1	1			
	41			1				
	91					1		
	108							0,11
	109							0,10

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	111								0,10
	116								0,03
	117								0,34
	122								0,26
	123								0,81
	125								0,23
	127								0,02
	128								0,03
	129								0,10
	130								0,10
30	SUM			0	3	1	1	0	21,2

RP years	Code	Geographic coordinates	Lot	House in earth bricks,	Latrine, #	Photovoltaic plant, #	Grannary, #	Field, #
100	1							2,93
	2							0,25
	5							0,35
	6							0,38
	7							0,16
	8							0,10
	9							1,42
	10							2,10
	12							0,52
	13							0,25
	21			1	1			
	22			1	1			
	23			1	1			
	24			1	1			
	25			2	1			
	26			1	1			
	27			1				
	28			1	1			
	29			1	1			
	30			1				
	31			1	1			
	32			1	1			
	34			1				
	35			1				
	36			1				
	37			1	1			
	38			1				
	39			1	1			
	40			1	1			
	41			1				
	42			1				
	43			1	1			
	44			1	1			
	45			1				

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	46				1				
	47				1				
	48				1	1			
	49				1	1			
	50				1	1			
	51				1	1			
	52				1	1			
	53				1	1			
	54				1	1			
	55				1				
	56				1				
	90				1	1			
	91						1		
	92				1				
	93				1				
	94				1				
	95				1	1			
	107								0,16
	110								0,10
	112								0,10
	113								0,10
	114								0,03
	115								0,11
	118								0,11
	119								0,10
	120								0,15
	121								0,75
	124								0,85
	131								0,11
100	SUM			0	41	24	1	0	11,13

Larba Birno, pluvial flood

RP Years	Code	Coordonnées géographiques	Concession	Maison banco n.	Latrine		Grenier n.	Champ
100	57			1				
	58			1	1			
	59			1				
	60			1				
	61			1	1			
	62			1	1			
	63			1	1			
	65			1	1			
	66			1	1			
	67			1	1			
	68			1	1			
	69			1	1			
	70			1	1			
	71			1	1			

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72				1	1			
73				1				
74				1				
75				1				
96				1				
97					1			
98							1	
99							1	
100							1	
101							1	
102				1				
103				1				
104				1				
105				1				
100	SUM			0	23	13	0	4

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Items exposed to flood in Garbey Kourou, Larba Birno, Tallé and Touré (Niger) according risk level

Tallé, fluvial flood

RP Years	Code	Geographic	coordinates	House in earth bricks, #	House in concrete bricks, #	Latrine or Shower, #	Granary, #	Blacksmith workshop, #	Field, ha	Paddy field, ha
10	12								2177	
	25								3008	
	34								1162	
	44	13°45'40.9"N	1°37'49.4"E	1						
	49	13°45'36.2"N	1°37'47.1"E	4						
	43	13°45'42.0"N	1°37'50.2"E				1			
	49	13°45'36.2"N	1°37'47.1"E				2			
	12	13°45'50.0"N	1°37'53.5"E							
	25	13°45'9.0"N	1°37'52.2"E			1				
	34	13°45'46.7"N	1°37'52.2"E							
	74	13°46'18.6"N	1°38'41.2"E						2159	
	75	13°46'15.7"N	1°38'51.7"E						1039	
	76	13°46'15.7"N	1°38'51.4"E						1328	
	77	13°46'15.6"N	1°38'53.6"E						1703	
	79	13°46'01.2"N	1°38'03.3"E						212	
	80	13°46'00.9"N	1°38'05.2"E						502	
	82	13°46'01.2"N	1°38'03.3"E						747	
	85	13°46'02.2"N	1°38'05.9"E						563	
	86	13°46'03.0"N	1°38'07.8"E						249	
	87	13°46'04.2"N	1°38'07.8"E						1516	
	88	13°46'06.11"N	1°38'10.3"E						1982	
	95	13°46'08.0"N	1°38'12.6"E						1346	
	96	13°46'08.8"N	1°38'18.5"E						1404	
	97	13°46'09.7"N	1°38'20.3"E						1799	
	98	13°46'11.7"N	1°38'22.2"E						1353	
	99	13°46'05.0"N	1°38'24.4"E						449	
	100	13°46'06.9"N	1°38'24.3"E						3241	
	101	13°46'08.5"N	1°38'24.8"E						3750	
	102	13°46'09.4"N	1°38'28.1"E						1986	
	103	13°46'12.5"N	1°38'58.1"E						1737	
	104	13°46'13.0"N	1°38'56.9"E						1018	
	105	13°46'13.0"N	1°38'56.9"E						764	
	106	13°46'14.9"N	1°38'56.6"E						779	
	107	13°46'15.4"N	1°38'55.2"E							
	108	13°46'14.4"N	1°39'07.4"E						2142	
	109	13°46'14.1"N	1°39'06.0"E						540	
	110	13°46'12.5"N	1°39'05.1"E						2609	
	111	13°46'14.9"N	1°39'01.9"E						1842	
	112	13°46'16.3"N	1°38'46.0"E						1092	
	113	13°46'16.6"N	1°39'20.9"E						1918	
	114	13°46'16.3"N	1°39'19.7"E						3198	
	115	13°46'15.3"N	1°39'17.0"E						3030	
	116	13°46'14.6"N	1°39'14.4"E						1425	

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	117	13°46'14.1''N	1°39'12.9''E						3170	
	118	13°46'16.6''N	1°39'20.9''E						2720	
	119	13°46'18.4''N	1°39'22.6''E						1131	
	120	13°46'17.7''N	1°39'24.0''E						1665	
	121	13°46'18.3''N	1°39'25.4''E						1551	
	122	13°46'20.0''N	1°39'25.7''E						1208	
	123	13°46'19.1''N	1°39'27.4''E						2271	
	124	13°46'21.3''N	1°39'28.3''E						1206	
	125	13°46'20.7''N	1°39'30.1''E						886	
	126	13°46'22.1''N	1°39'30.3''E						875	
	127	13°46'22.4''N	1°39'31.0''E						1536	
	130	13°46'23.9''N	1°39'35.4''E							1
	132								317	
	133								228	
	135								292	
	136								165	
	137								186	
	139								211	
	140								808	
	142								37	
	157								300	
	158								800	
	159								1300	
	160								1000	
	161								1500	
	162								7800	
	163								3500	
	164								200	
	165								2800	
	166								1100	
	167								5000	
	170								2400	
	171								1000	
	172								1000	
	173								1900	
10	SUM			6	0		3	0	87556	1

RP Years	Code	Coordonnées géographiques		Houses in earth bricks	Houses in cement bricks		Granary, #	Blacksmith workshop, #	Field, m ²	Paddy field, m ²
30	12								815	
	25								2625	
	26	13°45'48.8''N	1°37'52.1''E	1						
	28	13°45'48.1''N	1°37'51.8''E	1						
	29	13°45'47.8''N	1°37'51.9''E	1						
	34								159	
	58	13°45'32.1''N	1°37'44.3''E	1						
	59	13°45'32.3''N	1°37'44.6''E	1						

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62	13°45'31.0''N	1°37'44.0''E				1		
74								1207
75								879
76								52
77								1974
79								311
80								700
85								645
86								291
87								229
88								498
89								278
90								103
91								240
93								9
94								490
95								680
96								60
97								3551
99								1678
100								3277
102								2735
103								566
104								459
105								801
106								1302
107								1853
108								633
109								246
110								438
111								821
112								1042
113								69
114								757
115								300
117								595
120								195
121								329
122								168
123								413
124								315
125								88
129								288
131								477
132								1026
133								454
135								1273
136								647
137								634
138								86
139								1022

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	140								808	
	142								538	
	162								1000	
	165								2000	
	167								1800	
	171								2300	
	172								1600	
	173								4700	
30	SUM			5	0		1	0	55692	...

Tallé, fluvial backwater

RP Years	Code	Geographic coordinates	House In earth brics	House in ciment bricks	Latrine, Shower, #	Granary, #	Blacksmith workshop, #	Garden m ²	Paddy field m ²
64	12							1289	
	25							1231	
	34							631	
	74							1568	
	75							792	
	76							1208	
	77							1406	
	79							62	
	82							769	
	85							523	
	86							399	
	87							1666	
	88							1928	
	89							116	
	95							1594	
	96							1483	
	97							1332	
	99							218	
	100							2257	
	101							3750	
	102							913	
	103							1519	
	104							914	
	105							655	
	106							641	
	108							2030	
	109							469	
	110							2492	
	111							1628	
	112							871	
	113							1907	
	114							3152	
	115							3083	
	116							1411	
	117							3280	

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118								2720	
119								1145	
120								1779	
121								1694	
122								1249	
123								2396	
124								1508	
125								989	
126								875	
127								1548	
128								1921	
130									55637
131								1786	
133								143	
135								44	
136								28	
137								49	
139								41	
64	SUM							126574	55637

Tallé, fluvial flood

RP Years	Code	Geographic coordinates		House in earth bricks, #	House in ciment bricks, #	Latrine, shower, #	Granary, #	Blacksmith workshop, #	Field m ²	Paddy field m ²
100	5	13°45'56.0''N	1°37'57.7''E	1	1					
	8	13°45'55.1''N	1°37'56.5''E	1	1					
	22	13°45'50.2''N	1°37'51.9''E	1						
	25								5019	
	31	13°45'47.7''N	1°37'51.5''E	1						
	40	13°45'46.2''N	1°37'50.6''E	4						
	41	1°37'50.0''E	1°37'49.8''E	1						
	42	13°45'44.2''N	1°37'49.9''E	1						
	46	13°45'39.2''N	1°37'48.0''E	1						
	47	13°45'39.0''N	1°37'47.6''E	1						
	48	13°45'37.4''N	1°37'47.2''E	2						
	52	13°45'36.0''N	1°37'45.5''E	1						
	53	13°45'35.5''N	1°37'45.1''E	1						
	56	13°45'33.3''N	1°37'44.1''E	1						
	58	13°45'32.1''N	1°37'44.3''E	1						
	60B	13°45'31.8''N	1°37'43.3''E	1						
	61	13°45'31.1''N	1°37'43.6''E	1						
	63	13°45'30.9''N	1°37'43.8''E	1						
	66	13°45'24.1''N	1°37'39.6''E	1						
	67	13°45'24.7''N	1°37'40.1''E	1						
	68	13°45'26.8''N	1°37'41.0''E	1						
	9	13°45'55.0''N	1°37'56.5''E				1			
	15	13°45'52.7''N	1°37'53.2''E				1			

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30	13°45'47.4''N	1°37'51.6''E				2			
39	13°45'46.5''N	1°37'50.4''E				1			
48	13°45'37.4''N	1°37'47.2''E				1			
57	13°45'32.5''N	1°37'43.9''E				1			
65	13°45'24.0''N	1°37'39.6''E				1			
60	13°45'31.6''N	1°37'43.7''E					1		
25	13°45'9.0''N	1°37'52.2''E			1				
74	13°46'18.6''N	1°38'41.2''E						701	
79	13°46'01.2''N	1°38'03.3''E						213	
80	13°46'00.9''N	1°38'05.2''E						311	
84	13°46'01.9''N	1°38'03.7''E							
85								47	
86								11	
90	13°46'06.7''N	1°38'09.6''E						759	
91	13°46'08.4''N	1°38'09.7''E						3978	
92	13°46'10.0''N	1°38'15.1''E						370	
93	13°46'10.0''N	1°38'15.1''E						609	
94	13°46'08.7''N	1°38'13.8''E						112	
99								2572	
100								1157	
102								2236	
107	13°46'15.4''N	1°38'55.2''E						874	
108	13°46'14.4''N	1°39'07.4''E						413	
109	13°46'14.1''N	1°39'06.0''E						135	
110	13°46'12.5''N	1°39'05.1''E						317	
111	13°46'14.9''N	1°39'01.9''E						601	
114								165	
123								23	
129	13°46'22.4''N	1°39'30.6''E						307	
130	13°46'23.9''N	1°39'35.4''E							573
132								32	
135								2425	
136								349	
137								1683	
138								1778	
139								2704	
140								3564	
142								2243	
165								1500	
167								4600	
100	SUM		24	0		7	1	42381	1

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Touré, fluvial flood

RP Years	Code	Geographic coordinates		Lot	House in earth bricks, #	House in ciment bricks, #	Latrine, shower#	Granary, #	Borehole, #	Wells, #	Field, ha
10	2									1	
	77										0,40
	79										0,40
	80										0,83
	81										0,63
10	SUM			0	0	0	0	0	0	1	2,26

RP Years	Code	Coordonnées géographiques		Lot	House in earth bricks, #	House in ciment bricks, #	Latrine, #	Granary, #	Borehole, #	Wells, #	Field, m ²
30	1								1		
	15				1		1				
	59				2		2				
	72										0,02
	73										0,05
	79										0,92
	83										0,09
	131					1					
	151						1				
30	SUM			0	3		4		1	0	1,08

RP Years	Code	Geographic coordinates		Lot, #	House in earth bricks, #	Latrine, #	Granary, #	Borehole, #	Wells, #	Field, ha
100	7				1					
	8				2					
	9				1	1				
	10				1					
	11				1					
	12				1					
	13				1					
	14				1					
	16				1	1				
	17				1	1				
	18				1	1				
	19				1					
	20				1					
	21				1					
	22				1					

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100	SUM			0	79	40	28	0	0	1,90

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Touré, pluvial flood

PdR ans	Code	Coordonnées	géographiques	Concession	Maison banco n.	Maison dur n.	Latrine	Cuisine	Grenier n.	Atelier forgeron n.	Champ
100	98				1		1				
	99				1		2				
	100				1						
	101				1						
	102				1						
	103				1						
	104				1		1				
	105				1						
	106				1		1				
	107				1						
	108				1		1				
	109				1		1				
	110				1		1				
	111				1		1				
	112				1						
	113				1						
	114				1						
	115				1		1				
	116				1						
	117				1						
	118				1		1				
	119				1						
	152								1		
	153				1		1				
	154						1				
	155				2						
	156				1		1				
	157								1		
	158				1		1				
	159				1		1				
	160						1				
	161						1		1		
	162								1		
100				0	28	0	18	0	4	0	0