

SUPPLEMENTARY MATERIAL

Impact of soil depth and topography on the effectiveness of conservation practices on discharge and soil loss in the Ethiopian highlands

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Table S1: Monthly rainfall and runoff depth (mm) of Tikur-Wuha watershed (2010-2012)

Month	Rainfall			Runoff		
	2010	2011	2012	2010	2011	2012
Jan	23	5	0	41	8	12
Feb	0	0	0	39	5	11
Mar	61	47	95	36	4	14
Apr	128	48	16	50	5	11
May	93	133	77	41	28	13
Jun	152	192	280	33	22	45
Jul	466	518	487	79	110	71
Aug	442	435	330	81	125	62
Sep	158	165	132	39	51	38
Oct	19	34	49	8	40	28
Nov	26	99	70	3	35	26
Dec	9	0	16	2	23	18
Total	1577	1676	1552	452	456	349
		6%	-2%		0%	-23%

Table S2: Monthly rainfall and runoff depth (mm) of Guale watershed (2010-2012)

Month	Rainfall			Runoff		
	2010	2011	2012	2010	2011	2012
Jan	19	15	0	24	0	0
Feb	0	0	0	15	0	0
Mar	53	59	53	12	0	0
Apr	73	21	2	12	0	0
May	83	145	19	20	33	0
Jun	232	152	270	75	40	85
Jul	426	445	484	135	153	142
Aug	409	449	446	125	146	137
Sep	194	285	186	67	107	66
Oct	27	8	11	7	16	31
Nov	12	105	0	6	14	0
Dec	2	0	0	3	9	0
Total	1531	1682	1470	500	519	461
Change		10%	-4%		4%	-8%

Table S3: Average Monthly sediment concentrations (g/L) of monsoon season (May – August) in 2010-2012 of Tikur-Wuha and Guale Watersheds

	Tikur-Wuha			Guale		
Month	2010	2011	2012	2010	2011	2012
May	11.3	6.8	0.3	2.9	1.0	0.0
June	26.6	4.1	4.3	13.1	1.3	0.7
July	12.0	4.5	1.1	7.0	9.5	7.7
August	9.4	0.8	1.0	5.8	7.4	4.1
Max	26.6	6.8	4.3	13.1	9.5	7.7
Min	9.4	0.8	0.3	2.9	1.0	0.0
Average	14.8	4.0	1.7	7.2	4.8	3.1
Change		-73%	-89%		-33%	-57%

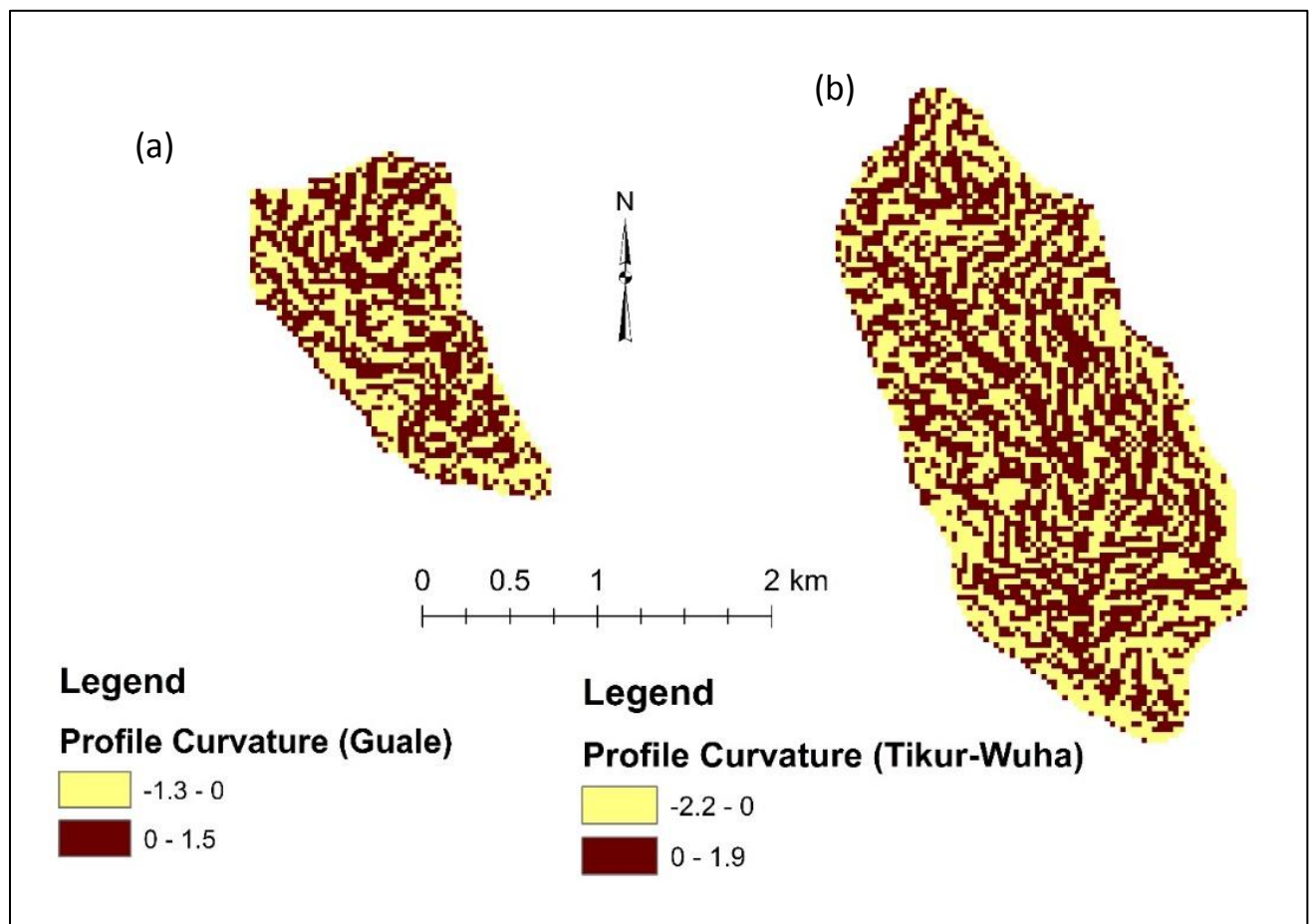


Figure S1 Profile curvature map of the watershed (a) Guale and (b) Tikur-Wuha

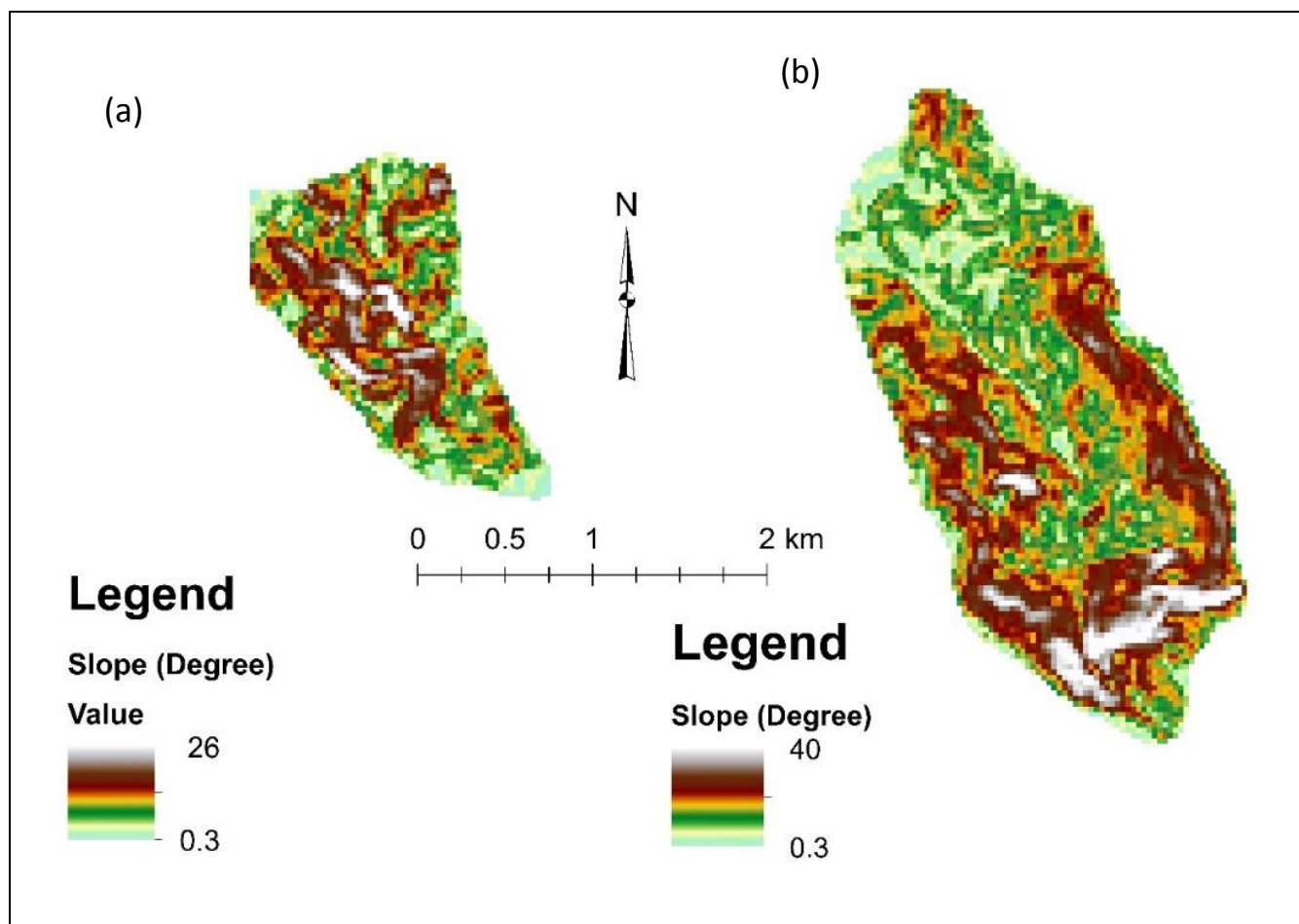


Figure S2 Slope angle map of Watersheds (a) Guale watershed and (b) Tikur-Wuha Watershed