

Table 5

Soil depth (m)	GSDE SOC total (Pg)	S1 SOC total (Pg)	S3 SOC total (Pg)	RMSE S1	RMSE S3	r –value S1	r – value S3
0.3	670	428	556	5218	5861	0.43	0.44
1	1356	672	846	14077	10213	0.52	0.51
2	1748	1001	1284	12968	13195	0.56	0.55

The tables of the original manuscript are changed as following:

Table2

PFT	Mean soil erosion (t ha ⁻¹ y ⁻¹)	Standard deviation soil erosion (t ha ⁻¹ y ⁻¹)	Mean SOC erosion (kg C ha ⁻¹ y ⁻¹)	Standard deviation SOC erosion (kg C ha ⁻¹ y ⁻¹)
Crop	1.71±0.66	24.95±12.44	288.17±64.86	43563±11512
Grass	1.88±0.46	32.67±8.58	83.52±15.94	4613±1231
Forest	0.26±0.13	2.31±1.68	12.36±4.26	326±92

Table 3: only SOC erosion rates, their standard deviations and changes are corrected

Region	Mean soil erosion rate	Standard deviation soil erosion rate	Change in mean soil erosion rate	Mean SOC erosion rate	Standard deviation SOC erosion rate	Change in mean SOC erosion rate
	2005 (t ha ⁻¹ y ⁻¹)	2005 (t ha ⁻¹ y ⁻¹)	2005 -1851 (t ha ⁻¹ y ⁻¹)	2005 (kg C ha ⁻¹ y ⁻¹)	2005 (kg C ha ⁻¹ y ⁻¹)	2005-1851 (kg C ha ⁻¹ y ⁻¹)
Africa	2.69±0.75	68.47±21.84	0.69±0.12	13.17±5.01	100.56±69.56	4.31±3.92
Asia	6.03±1.31	167.83±41.62	0.23±0.12	57.85±14.79	831.7±354.05	3.22±8.21
Europe	2.45±0.36	73.7±12.9	0.48±0.12	16.67±3.37	347.74±91.1	1.39±0.99
Australia	1.46±0.42	16.98±5.66	-0.5±0.11	5.14±1.27	23.14±7.45	1.81±0.68
South-America	4.69±1.19	117.58±33.24	1.35±0.42	74.27±21.68	1552.04±537.61	38.89±16.69
North-America	2.83±0.55	63.68±11.06	0.15±0.06	32.85±6.24	571.24±91.69	3.14±2.66
Global	3.92±0.89	104.48±26.99	0.5±0.07	38.49±10.12	690.96±264.47	8.92±6.31

Table 4

Region	Change SOC stocks S1	Change SOC stocks S2	Change SOC stocks S1-S2	Change SOC stocks S3	Change SOC stocks S4	Change SOC stocks S3-S4
	Pg C	Pg C	Pg C	Pg C	Pg C	Pg C
Africa	-1.55±0.01	-0.24±0.03	-1.31±0.04	-1.54	-0.55	-0.98
Asia	-0.36±0.77	7.94±0.001	-8.31±0.77	0.65	7.11	-6.47
Europe	-3.33±0.91	1.78±0.11	-5.12±0.81	-4.35	1.52	-5.87
Australia	0.21±0.01	0.05±0.003	0.16±0.01	0.29	0.01	0.28
South- America	2.24±0.22	2.82±0.07	-0.59±0.29	3.75	2.06	1.69
North- America	-2.62±0.10	3.19±0.05	-5.81±0.95	-2.5	3.03	-5.53
Global	-5.35±0.27	15.93±0.21	-21.29±2.48	-3.3	13.86	-17.16

Table 7: only SOC fluxes from our study are corrected

Region	<i>Our Study</i>		<i>Doetterl et al. (2012)</i>	
	Sediment flux 2005 Pg y ⁻¹	SOC flux 2005 Tg C y ⁻¹	Sediment flux 2000 Pg y ⁻¹	SOC flux 2000 Tg C y ⁻¹
Africa	2.6	20.29±8.28	2.4	39.5
Asia	5.4	54.34±20.63	4.9	90.0
Europe	2.1	30.8±6.40	1.9	39.5
Australia	0.2	2.45±0.52	0.3	4.3
South- America	1.6	39.03±15.74	1.4	26.7
North- America	0.7	12.37±3.39	1.6	31.5
Total	12.6	161.53±55.74	12.5	231.5