



Corrigendum

Corrigendum to “Global Phanerozoic sea levels from paleogeographic flooding maps” [Gondwana Res. 110 (2022) 128–142]

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The authors regret an error in Fig. 2. Paleogeographic reconstructions used for illustration (age 440 Ma) are inaccurate and should be replaced with the following. This figure was intended to illustrate the different definitions of flooding used in the article; however, the faulty reconstructions can mislead the reader regarding the location of land masses during the early Silurian.

Additionally, we discovered errors in Table 1 where values were left uncorrected by mistake. The corrected values are available in the supplementary material and in red in the corrected Table 1 below:

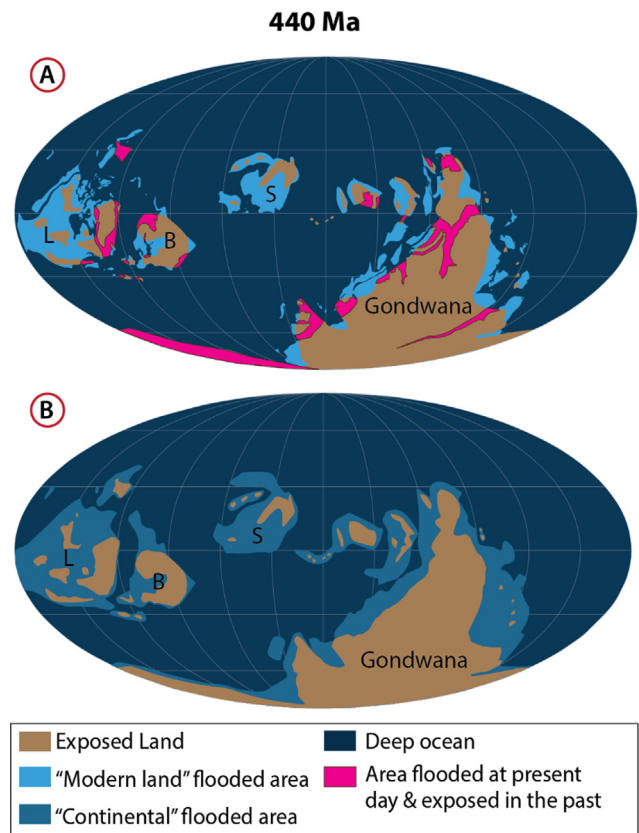


Fig. 2. Plate reconstructions at ~440 Ma (early Silurian) with exposed land, deep ocean, and (a) “Modern land” flooded areas (light blue) and exposed land of the past that is currently flooded (pink areas). Our reconstructions assume that small pathways between continents were also exposed in the past, based on lithofacies and fossil distributions over 10 Myr intervals. However, those land areas are not exposed today. (b) “Continental” flooded area (updated from Marcilly et al., 2021). B, Baltica; L, Laurentia, S, Siberia.

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Table 1
 Land and flooding areas through time with a 10 Myrs time step, and calculated sea levels for both “modern-land” and “continental flooding”. The mismatch between modern land and exposed land during 20–0 Ma is linked to many islands that are mapped in the exposed land model.

Age	Continental crust	Modern land (corrected for Iceland)	Exposed land	Modern-land flooding	Continental flooding	Continental flooding relative to present	Modern land sea level (C = 0.0057 km/km ²)	Continental sea level (C = 0.0057 km/km ²)	Continental sea level (C = 0.0057 km/km ²)
(Ma)	10 ⁶ km ²	10 ⁶ km ²	10 ⁶ km ²	relative 10 ⁶ km ²	10 ⁶ km ²	relative 10 ⁶ km ²	relative m	m	relative m
520	169.40	116.16	75.61	43.42	93.79	32.30	245.84	531.07	182.88
510	167.57	117.83	66.95	53.74	100.62	39.14	304.32	569.78	221.60
500	174.85	118.88	78.29	43.45	96.55	35.07	246.02	546.74	198.55
490	173.28	119.00	80.37	41.50	92.91	31.42	234.97	526.11	177.92
480	172.98	118.79	78.86	42.79	94.13	32.64	242.32	532.99	184.80
470	174.33	119.07	79.29	42.63	95.03	33.55	241.42	538.12	189.93
460	174.49	118.89	77.69	44.06	96.79	35.31	249.49	548.09	199.91
450	175.03	118.97	89.80	32.03	85.23	23.74	181.37	482.61	134.42
440	175.76	118.98	90.86	30.98	84.90	23.41	175.44	480.75	132.56
430	176.61	119.16	75.77	46.25	100.84	39.36	261.91	571.02	222.84
420	176.84	120.27	77.37	45.76	99.47	37.98	259.14	563.24	215.05
410	180.65	120.40	96.75	26.51	83.90	22.41	150.12	475.08	126.89
400	179.80	122.57	95.50	29.93	84.29	22.81	169.48	477.31	129.12
390	177.74	123.00	80.10	45.76	97.65	36.16	259.14	552.93	204.74
380	178.77	122.96	82.21	43.62	96.56	35.08	246.98	546.78	198.59
370	182.78	123.16	85.04	40.98	97.74	36.25	232.06	553.45	205.26
360	179.20	123.03	107.55	18.35	71.65	10.16	103.89	405.71	57.52
350	177.28	123.06	99.92	26.01	77.36	15.88	147.27	438.06	89.87
340	175.28	125.42	106.48	21.81	68.80	7.31	123.49	389.58	41.40
330	176.77	126.16	105.10	23.93	71.67	10.18	135.49	405.81	57.63
320	182.92	129.36	117.44	14.78	65.47	3.99	83.70	370.75	22.56
310	181.44	131.94	105.51	29.30	75.93	14.45	165.88	429.97	81.79
300	181.73	135.57	110.77	27.66	70.96	9.47	156.62	401.80	53.61
290	186.35	135.98	118.78	20.06	67.57	6.08	113.57	382.62	34.43
280	188.33	136.25	114.45	24.67	73.89	12.40	139.68	418.38	70.19
270	189.27	136.39	111.91	27.34	77.36	15.87	154.80	438.04	89.85
260	190.09	136.89	126.82	12.93	63.27	1.78	73.22	358.26	10.07
250	191.39	138.47	128.62	12.72	62.78	1.29	72.03	355.47	7.29
240	190.50	138.51	134.29	7.08	56.20	-5.28	40.09	318.25	-29.94
230	189.81	138.51	134.84	6.54	54.97	-6.52	37.03	311.26	-36.92
220	189.67	138.52	131.18	10.20	58.49	-2.99	57.74	331.21	-16.98
210	186.81	138.42	138.69	2.59	48.12	-13.36	14.66	272.49	-75.70
200	190.16	139.02	132.04	9.84	58.12	-3.36	55.75	329.12	-19.07
190	190.04	138.86	133.28	8.44	56.76	-4.73	47.81	321.41	-26.78
180	193.00	139.02	137.46	4.42	55.54	-5.95	25.00	314.49	-33.70
170	190.78	139.55	121.50	20.91	69.28	7.80	118.41	392.31	44.12
160	184.81	140.02	107.39	35.49	77.41	15.93	200.95	438.36	90.17
150	187.16	140.02	115.35	27.05	71.81	10.32	153.19	406.62	58.43
140	189.50	140.02	119.88	22.88	69.62	8.13	129.56	394.22	46.03
130	196.52	140.02	115.04	27.97	81.48	20.00	158.39	461.39	113.20
120	196.24	140.02	106.04	37.22	90.20	28.71	210.77	510.76	162.57
110	199.28	140.02	115.77	27.75	83.52	22.03	157.11	472.92	124.73
100	201.06	140.24	106.18	37.59	94.88	33.39	212.83	537.25	189.07
90	196.37	139.98	106.57	37.44	89.79	28.31	212.00	508.45	160.26
80	199.67	140.95	94.19	50.07	105.47	43.99	283.52	597.25	249.06
70	198.08	141.44	119.99	24.52	78.09	16.60	138.84	442.18	93.99
60	203.90	141.36	129.82	14.95	74.09	12.60	84.63	419.52	71.33
50	205.20	142.36	137.04	8.22	68.16	6.68	46.56	385.97	37.79
40	213.66	143.01	141.67	4.20	71.99	10.51	23.81	407.66	59.47
30	212.73	143.27	146.64	-0.51	66.09	4.60	-2.88	374.24	26.05
20	211.93	144.53	147.05	0.34	64.88	3.39	1.94	367.39	19.20
10	212.60	145.07	148.57	-0.64	64.03	2.55	-3.62	362.58	14.39
0	210.49	146.14	149	0.00	61.49	0.00	0.00	348.17	0.00

The authors would like to apologise for any inconvenience caused.