

Supplementary Table1 SIMS zircon U-Pb dating data for the Early-Middle Ordovician volcanic rocks along the eastern margin of the Xing'an Massif

Sample.No	Th	U	Th/U	²⁰⁷ Pb/ ²⁰⁶ Pb		²⁰⁷ Pb/ ²³⁵ U		²⁰⁶ Pb/ ²³⁸ U		²⁰⁷ Pb/ ²⁰⁶ Pb		²⁰⁷ Pb/ ²³⁵ U		²⁰⁶ Pb/ ²³⁸ U	
	(ppm)	(ppm)		Ratio	1σ (%)	Ratio	1σ (%)	Ratio	1σ (%)	Age(Ma)	1σ	Age(Ma)	1σ	Age(Ma)	1σ
14DX2-1															
14DX2-1-01	229	321	0.71	0.05645	2.90	0.66685	5.36	0.08567	4.51	470	63	519	22	530	23
14DX2-1-02	722	1428	0.51	0.10345	1.43	3.39415	4.46	0.23796	4.23	1687	26	1503	36	1376	53
14DX2-1-03	354	399	0.89	0.05749	0.80	0.63263	1.72	0.07981	1.52	510	18	498	7	495	7
14DX2-1-04	165	471	0.35	0.11233	0.47	5.05277	1.57	0.32625	1.50	1837	9	1828	13	1820	24
14DX2-1-05	344	490	0.70	0.05748	2.72	0.57966	4.09	0.07314	3.05	510	59	464	15	455	13
14DX2-1-06	764	969	0.79	0.10895	1.94	4.65673	3.31	0.30999	2.68	1782	35	1760	28	1741	41
14DX2-1-07	254	660	0.38	0.11193	1.04	5.10038	4.19	0.33048	4.06	1831	19	1836	36	1841	65
14DX2-1-08	172	214	0.80	0.05662	3.22	0.60430	6.02	0.07741	5.08	477	70	480	23	481	24
14DX2-1-09	113	365	0.31	0.11359	3.50	5.40635	7.76	0.34521	6.92	1858	62	1886	69	1912	116
14DX2-1-10	423	721	0.59	0.11230	0.23	4.97249	1.53	0.32115	1.51	1837	4	1815	13	1795	24
14DX2-1-12	571	1187	0.48	0.05675	0.75	0.59923	1.69	0.07658	1.51	482	17	477	6	476	7
14DX2-1-13	280	537	0.52	0.05725	0.70	0.61083	1.70	0.07739	1.55	501	15	484	7	480	7
14DX2-1-14	201	429	0.47	0.05690	0.76	0.59231	1.81	0.07550	1.64	488	17	472	7	469	7
14DX2-1-15	317	829	0.38	0.05662	0.54	0.59323	1.59	0.07599	1.50	477	12	473	6	472	7
14DX2-1-16	436	618	0.71	0.05663	0.61	0.58890	1.62	0.07542	1.50	477	13	470	6	469	7
14DX8-1															
14DX8-1-01	124	172	0.72	0.05581	1.57	0.61896	2.20	0.08043	1.55	445	34	489	9	499	7
14DX8-1-02	253	571	0.44	0.05689	0.90	0.58598	1.87	0.07471	1.64	487	20	468	7	464	7
14DX8-1-03	51	219	0.23	0.05425	3.52	0.57624	3.83	0.07704	1.52	381	77	462	14	478	7
14DX8-1-04	92	211	0.44	0.05678	2.39	0.60099	3.71	0.07677	2.83	483	52	478	14	477	13

Continued Supplementary Table 1

Sample No.	Th	U	Th/U	$^{207}\text{Pb}/^{206}\text{Pb}$		$^{207}\text{Pb}/^{235}\text{U}$		$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{206}\text{Pb}$		$^{207}\text{Pb}/^{235}\text{U}$		$^{206}\text{Pb}/^{238}\text{U}$	
	(ppm)	(ppm)		Ratio	1 σ (%)	Ratio	1 σ (%)	Ratio	1 σ (%)	Age(Ma)	1 σ	Age(Ma)	1 σ	Age(Ma)	1 σ
14DX8-1-05	65	208	0.31	0.05691	1.80	0.57799	2.36	0.07365	1.52	488	39	463	9	458	7
14DX8-1-06	40	173	0.23	0.05792	1.81	0.58295	2.77	0.07300	2.09	527	39	466	10	454	9
14DX8-1-07	144	330	0.44	0.05691	1.11	0.56802	2.38	0.07239	2.11	488	24	457	9	451	9
14DX8-1-08	48	197	0.25	0.05843	2.40	0.60309	3.56	0.07486	2.62	546	52	479	14	465	12
14DX8-1-09	104	288	0.36	0.05560	2.03	0.60250	4.05	0.07860	3.50	436	45	479	16	488	16
14DX8-1-10	258	403	0.64	0.05630	0.79	0.61448	1.78	0.07917	1.59	464	17	486	7	491	8
14DX8-1-11	146	340	0.43	0.05756	2.64	0.60784	3.65	0.07659	2.51	513	57	482	14	476	12
14DX8-1-12	46	138	0.34	0.05698	1.53	0.60672	2.27	0.07723	1.68	491	33	481	9	480	8
14DX8-1-13	41	182	0.22	0.05526	1.51	0.57483	2.15	0.07544	1.54	423	33	461	8	469	7
14DX8-1-14	46	178	0.26	0.05711	2.48	0.62662	3.11	0.07958	1.87	496	54	494	12	494	9
14DX8-1-15	95	241	0.39	0.05687	1.12	0.60005	1.87	0.07652	1.50	487	25	477	7	475	7
14DX8-1-16	108	304	0.36	0.05784	1.01	0.61049	1.81	0.07655	1.50	524	22	484	7	475	7
14DX8-1-17	97	275	0.35	0.05578	2.72	0.57723	3.35	0.07505	1.95	444	59	463	13	467	9
14DX8-1-18	27	136	0.20	0.05677	1.47	0.59567	2.16	0.07610	1.57	483	32	474	8	473	7
14DX8-1-19	63	222	0.28	0.05722	1.14	0.58919	1.90	0.07468	1.52	500	25	470	7	464	7