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210016
300170

630.1±1.3Ma

Rodinia

U - Pb
A

the latest Neoproterozoic *Geologi-*
606-613

reveals that the K-feldspar from the eastern margin of the
630.6±1.3Ma and 630.6±1.3Ma. These granitic rocks were
of old andesitic-basaltic magma from mantle sources
the Neoproterozoic
at the 650-615Ma igneous
of the Neoproterozoic igneous activities and genetically related
Pan-Africa orogeny. From Neoproterozoic
exhibited typical sequences on a passive continental margin, which
incorporated into the Gondwana
Neoproterozoic granites, zircon Hf isotope, tectonic implications

60×10⁴km²

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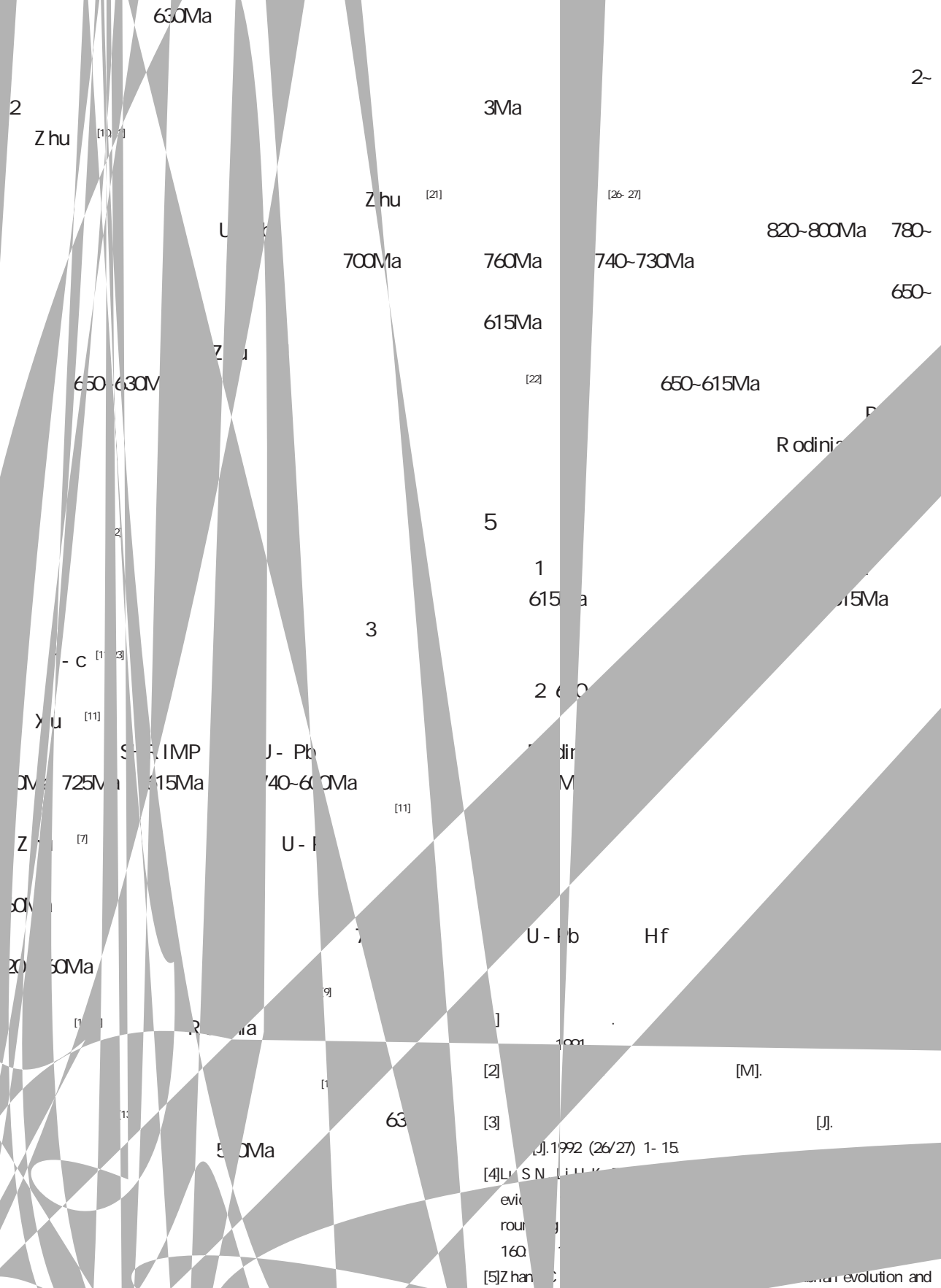
Table 1 Th-Pb isotopic data of K-feldspar granite and granite

Sample	Th (ppm)	U (ppm)	Th/U	$^{207}\text{Pb}/^{235}\text{U}$
2009KR01				
1	41	0	0.44	0.8624
2	33	0	0.43	0.8450
3	11	0	0.48	0.8510
4	3	0	0.63	0.8714
5	1	0	0.70	0.8553
6	3	0	0.72	0.8709
7	2	0	0.76	0.8689
8		0	0.82	0.8425
9		0	0.85	0.8662
10		0	0.89	0.8635
11		0	0.66	0.8720
12		0	0.54	0.8695
13		0	0.74	0.8646
14		0	0.76	0.8735
15		0	0.57	0.8577
16		0	0.54	0.8729
17		0	0.56	0.873
18		0	0.59	0.876
19		0	0.62	0.872
20		0	0.49	0.867
21		0	0.63	0.870
22	1	0	0.56	0.86
27	0	0	0.54	0.86
2009KR02				
0		0	0.5	0.86
0		0	0.5	0.87
0		0	0.4	0.87
0		0	0	0.87
0		0	0.5	0.8
1.		0	0.8	0.8
1.		0	0.8	0.8
1.		0	0.8	0.8
1.		0	0.8	0.8
0.		0	0.8	0.8
0.		0	0.8	0.8
1		0	0.8	0.8
0		0	0.8	0.8
0		0	0.8	0.8
028		0	0.5	0.8
027		0	0.5	0.8
975		0	0.5	0.8

2 **Hf**
**Table 2 Hf isotopic composition of Neoproterozoic K-feldspar
granite and granodiorite in Quruqtagh area**

	$^{176}\text{Yb}/^{177}\text{Hf}$	$^{176}\text{Lu}/^{177}\text{Hf}$	$^{176}\text{Hf}/^{177}\text{Hf}$	2	$^{176}\text{Hf}/^{177}\text{Hf}_i$	$\epsilon(\text{O})$	$\epsilon(\text{Hf})$	DM/Ma	DM^c/Ma	Lu/Hf
2009KR015										
1	0.0815	0.0020	0.282228	0.000021	0.282205	-19.2	-6.2	1484	2509	-0.94
2	0.0501	0.0015	0.282277	0.000020	0.282258	-17.5	-4.3	1398	2340	-0.95
3	0.0418	0.0014	0.282220	0.000016	0.282204	-19.5	-6.2	1470	2511	-0.96
4	0.0381	0.0012	0.282238	0.000016	0.282223	-18.9	-5.5	1440	2450	-0.96
5	0.0468	0.0014	0.282247	0.000017	0.282230	-18.6	-5.3	1436	2430	-0.96
6	0.0542	0.0020	0.282223	0.000014	0.282200	-19.4	-6.4	1490	2524	-0.94
7	0.0696	0.0021	0.282213	0.000022	0.282188	-19.8	-6.8	1511	2561	-0.94
8	0.0350	0.0011	0.282235	0.000018	0.282222	-19.0	-5.6	1439	2454	-0.97
9	0.0502	0.0014	0.282230	0.000019	0.282213	-19.2	-5.9	1460	2484	-0.96
10	0.0342	0.0010	0.282259	0.000020	0.282248	-18.1	-4.7	1402	2374	-0.97
11	0.0555	0.0017	0.282279	0.000020	0.282259	-17.4	-4.3	1400	2337	-0.95
12	0.0378	0.0011	0.282253	0.000020	0.282241	-18.3	-4.9	1413	2396	-0.97
13	0.0647	0.0018	0.282205	0.000021	0.282184	-20.0	-6.9	1509	2574	-0.95
14	0.0265	0.0008	0.282218	0.000018	0.282209	-19.6	-6.0	1450	2494	-0.98
15	0.0787	0.0022	0.282275	0.000020	0.282248	-17.6	-4.7	1427	2372	-0.93
16	0.0442	0.0010	0.282268	0.000019	0.282257	-17.8	-4.4	1389	2345	-0.97
17	0.0661	0.0015	0.282180	0.000023	0.282162	-20.9	-7.7	1533	2643	-0.95
18	0.0402	0.0011	0.282240	0.000025	0.282228	-18.8	-5.4	1430	2436	-0.97
19	0.0614	0.0016	0.282229	0.000024	0.282210	-19.2	-6.0	1468	2492	-0.95
20	0.0453	0.0012	0.282243	0.000022	0.282229	-18.7	-5.3	1431	2432	-0.96
21	0.0610	0.0012	0.282252	0.000020	0.282237	-18.4	-5.0	1421	2407	-0.96
22	0.1971	0.0049	0.282187	0.000023	0.282129	-20.7	-8.9	1674	2746	-0.85
23	0.0505	0.0013	0.282275	0.000021	0.282260	-17.6	-4.2	1389	2334	-0.96
24	0.0531	0.0013	0.282247	0.000020	0.282232	-18.6	-5.2	1429	2422	-0.96
2009KR016										
1	0.1286	0.0031	0.282279	0.000021	0.282242	-17.4	-4.9	1457	2392	-0.91
2	0.0289	0.0008	0.282270	0.000016	0.282260	-17.7	-4.2	1380	2333	-0.97
3	0.0989	0.0027	0.282263	0.000019	0.282231	-18.0	-5.3	1463	2426	-0.92
4	0.0294	0.0008	0.282263	0.000015	0.282253	-18.0	-4.5	1391	2357	-0.97
5	0.0359	0.0010	0.282286	0.000016	0.282274	-17.2	-3.7	1364	2289	-0.97
6	0.0243	0.0007	0.282310	0.000015	0.282302	-16.3	-2.8	1320	2203	-0.98
7	0.0412	0.0012	0.282312	0.000015	0.282299	-16.3	-2.9	1333	2212	-0.97
8	0.0400	0.0010	0.282267	0.000016	0.282254	-17.9	-4.4	1393	2353	-0.97
9	0.0512	0.0013	0.282280	0.000017	0.282265	-17.4	-4.1	1384	2320	-0.96
10	0.0574	0.0016	0.282274	0.000015	0.282255	-17.6	-4.4	1403	2350	-0.95
11	0.0233	0.0007	0.282281	0.000016	0.282273	-17.4	-3.8	1360	2294	-0.98
12	0.0391	0.0011	0.282252	0.000015	0.282239	-18.4	-5.0	1415	2401	-0.97
13	0.0145	0.0004	0.282283	0.000015	0.282278	-17.3	-3.6	1348	2279	-0.99
14	0.0640	0.0016	0.282310	0.000018	0.282291	-16.3	-3.1	1351	2236	-0.95
15	0.0467	0.0012	0.282295	0.000016	0.282282	-16.9	-3.5	1357	2267	-0.97
16	0.0947	0.0024	0.282304	0.000020	0.282276	-16.5	-3.7	1390	2284	-0.93
17	0.0253	0.0007	0.282281	0.000016	0.282273	-17.4	-3.8	1360	2293	-0.98
18	0.0642	0.0017	0.282277	0.000018	0.282257	-17.5	-4.3	1402	2344	-0.95
19	0.0740	0.0019	0.282230	0.000019	0.282207	-19.2	-6.1	1479	2502	-0.94
20	0.1164	0.0032	0.282274	0.000018	0.282236	-17.6	-5.1	1467	2410	-0.90
21	0.0286	0.0008	0.282272	0.000017	0.282263	-17.7	-4.1	1375	2325	-0.98
22	0.0334	0.0008	0.282260	0.000018	0.282250	-18.1	-4.6	1395	2366	-0.97
23	0.0248	0.0007	0.282263	0.000016	0.282255	-18.0	-4.4	1385	2351	-0.98
24	0.0619	0.0015	0.282313	0.000017	0.282295	-16.2	-3.0	1345	2223	-0.95
25	0.0517	0.0014	0.282308	0.000023	0.282291	-16.4	-3.1	1349	2237	-0.96
26	0.0547	0.0016	0.282267	0.000017	0.282249	-17.8	-4.6	1412	2370	-0.95





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