

z

2
a¹, l

sum
a r

c

b

l

l

nc

cc

cc

c

r

c

r

5
01 7

Ro

[13]

U-138
2

2010KR015
150-250 μ m
CL

Th 23
117 × 10⁶ - 995 ×
168 × 10⁶ - 1404 × 10⁶ Th/U

Pb 2-c 23
630.1 ± 1.5 Ma

25 Th 107 ×
154 × 10⁶ - 2256 × 10⁶

3%
2%

35%~45%

30%

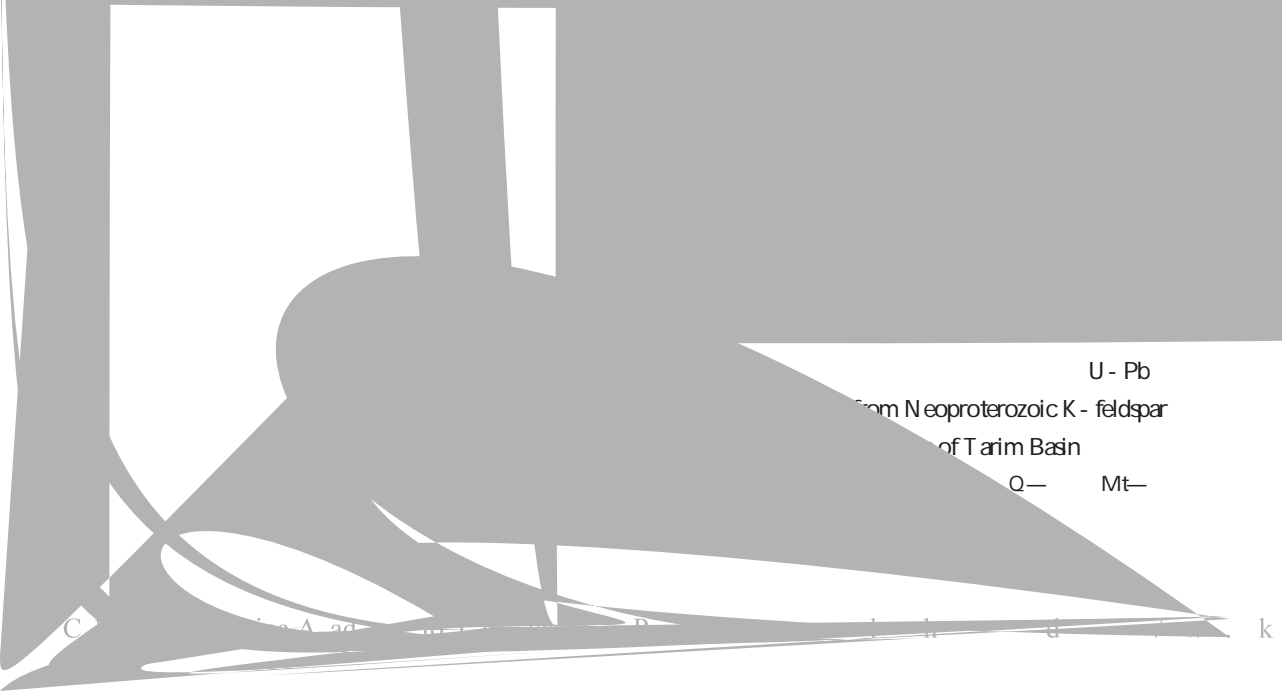
0~45%

50%

10%

25%

²⁰⁶Pb/²³⁸U



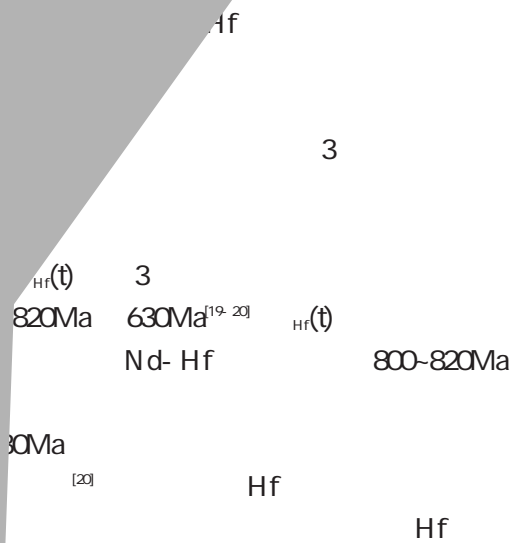
1

U-Th-Pb

Table 1 U-Th-Pb isotopic data of zircons from Neoproterozoic K-feldspar granite and granodiorite in Quruqtagh area

	Th	U	Th/U	$^{206}\text{Pb}/^{238}\text{U}$	/%	$^{207}\text{Pb}/^{235}\text{U}$	/%	$^{206}\text{Pb}/^{238}\text{U}$	1σ	^{207}Pb
	/10 ⁶							/Ma		
2009KR015										
1	413	427	0.97	0.1031	0.44	0.8624	1.08	632	3	632
2	331	418	0.79	0.1016	0.43	0.8450	1.56	624	3	632
3	127	219	0.58	0.1028	0.48	0.8510	1.60	631	3	632
4	355	359	0.99	0.1030	0.63	0.8714	1.38	632	4	632
5	154	168	0.91	0.1029	0.70	0.8553	2.16	632	4	632
6	377	386	0.98	0.1030	0.72	0.8709	1.31	632	5	632
7	312	357	0.87	0.1026	0.76	0.8689	1.41	629	5	632
8	147	169	0.87	0.1025	0.82	0.8425	2.09	629	5	632
9	167	193	0.87	0.1024	0.85	0.8662	2.43	628	5	632
10	198	263	0.75	0.1023	0.89	0.8635	1.49	628	6	632
11	194	208	0.93	0.1028	0.66	0.8720	1.76	631	4	632
12	388	416	0.93	0.1025	0.54	0.8695	1.10	629	3	632
13	289	325	0.89	0.1021	0.74	0.8646	1.28	626	5	632
14	251	309	0.81	0.1024	0.76	0.8735	1.37	629	5	632
15	136	194	0.70	0.1033	0.57	0.8577	1.58	634	4	632
16	320	348	0.92	0.1035	0.54	0.8729	1.11	635	3	632
17	117	168	0.70	0.1032	0.56	0.8730	2.01	633	4	632
18	242	303	0.80	0.1038	0.59	0.8763	1.12	636	4	632
19	304	368	0.83	0.1028	0.62	0.8721	1.18	631	4	632
20	408	428	0.95	0.1030	0.49	0.8674	1.07	632	3	632
21	995	1404	0.71	0.1022	0.63	0.8704	0.92	627	4	632
22	258	256	1.01	0.1019	0.56	0.8631	2.50	626	4	632
23	272	304	0.90	0.1021	0.54	0.8609	2.51	627	3	632
2009KR016										
1	310	411	0.76	0.1020	0.65	0.8616	1.04	626	4	632
2	172	190	0.91	0.1032	0.65	0.8703	1.87	633	4	632
3	750	834	0.90	0.1028	0.74	0.8779	0.88	631	5	640
4	287	357	0.80	0.1030	0.60	0.8785	1.02	632	4	640
5	434	585	0.74	0.1038	0.56	0.8771	0.88	636	4	639
6	845	788	1.07	0.1030	0.60	0.8795	0.84	632	4	641
7	102	752	1.36	0.1033	0.60	0.8732	0.86	634	4	637
8	702	638	1.10	0.1028	0.69	0.8642	0.89	631	4	632
9	969	849	1.14	0.1031	0.52	0.8707	0.85	633	3	636
10	782	825	0.95	0.1030	0.48	0.8624	0.82	632	3	631
11	687	718	0.96	0.1027	0.45	0.8619	0.86	630	3	631
12	1061	1016	1.04	0.1029	0.40	0.8647	0.80	631	3	633
13	451	641	0.70	0.1028	0.47	0.8638	0.88	631	3	632
14	107	154	0.69	0.1024	0.52	0.8669	2.14	628	3	634
15	287	321	0.89	0.1026	0.54	0.8731	1.35	630	3	637
16	528	573	0.92	0.1027	0.49	0.8653	0.92	630	3	633
17	717	609	1.18	0.1024	0.39	0.8640	0.95	629	2	632
18	392	558	0.70	0.1025	0.39	0.8621	1.02	629	2	631
19	2273	1709	1.33	0.1026	0.40	0.8671	0.80	630	3	634
20	925	902	1.02	0.1025	0.39	0.8660	0.85	629	2	633
21	600	578	1.04	0.1028	0.46	0.8725	0.95	631	3	637
22	4081	2256	1.81	0.1027	0.45	0.8680	0.78	630	3	634
23	937	989	0.95	0.0975	0.46	0.8093	0.82	600	3	602
24	510	494	1.03	0.1029	0.49	0.8680	1.00	631	3	635

		$^{176}\text{Yb}/^{177}\text{Hf}$							
2009KR015									
1	0.0815	0.0001							
2	0.0501	0.0001							
3	0.0418	0.0001							
4	0.0381	0.0001							
5	0.0468	0.0001							
6	0.0542	0.0001							
7	0.056	0.0001							
8		0.0001							
9		0.0001							
10		0.0001							
11		0.0001							
12		0.0001							
13		0.0001							
14		0.0001							
15		0.0001							
16		0.0001							
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42		0.0001							
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67		0.0001							
68		0.0001							
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76		0.0001							
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78		0.0001							
79		0.0001							
80		0.0001							
81		0.0001							
82		0.0001							
83		0.0001							
84		0.0001							
85		0.0001							
86		0.0001							
87		0.0001							
88		0.0001							
89		0.0001							
90		0.0001							
91		0.0001							
92		0.0001							
93		0.0001							
94		0.0001							
95		0.0001							
96		0.0001							
97		0.0001							
98		0.0001							
99		0.0001							
100		0.0001							
2009KR016									
1	0.1286	0.0031							
2	0.0289	0.0008							
3	0.0989	0.0027							
4	0.0294	0.0008							
5	0.0359	0.0010							
6	0.0243	0.0007							
7	0.0412	0.0012							
8	0.0400	0.0010							
9	0.0512	0.0013							
10	0.0574	0.0016							
11	0.0233	0.0007							
12	0.0391	0.0011							
13	0.0145	0.0004							
14	0.0640	0.0016							
15	0.0467	0.0012							
16	0.0947	0.0024							
17	0.0253	0.0007							
18	0.0642	0.0017							
19	0.0740	0.0019							
20	0.1164	0.0032							
21	0.0286	0.0008							
22	0.0334	0.0008							
23	0.0248	0.0007							
24	0.0619	0.0015							
25	0.0517	0.0014							
26	0.0547	0.0016							



3.6-2.2Ga
 [14] 820-800
 735Ma 735Ma
 Fig. 3 $Hf(t)$ diagram for ages of Precambrian

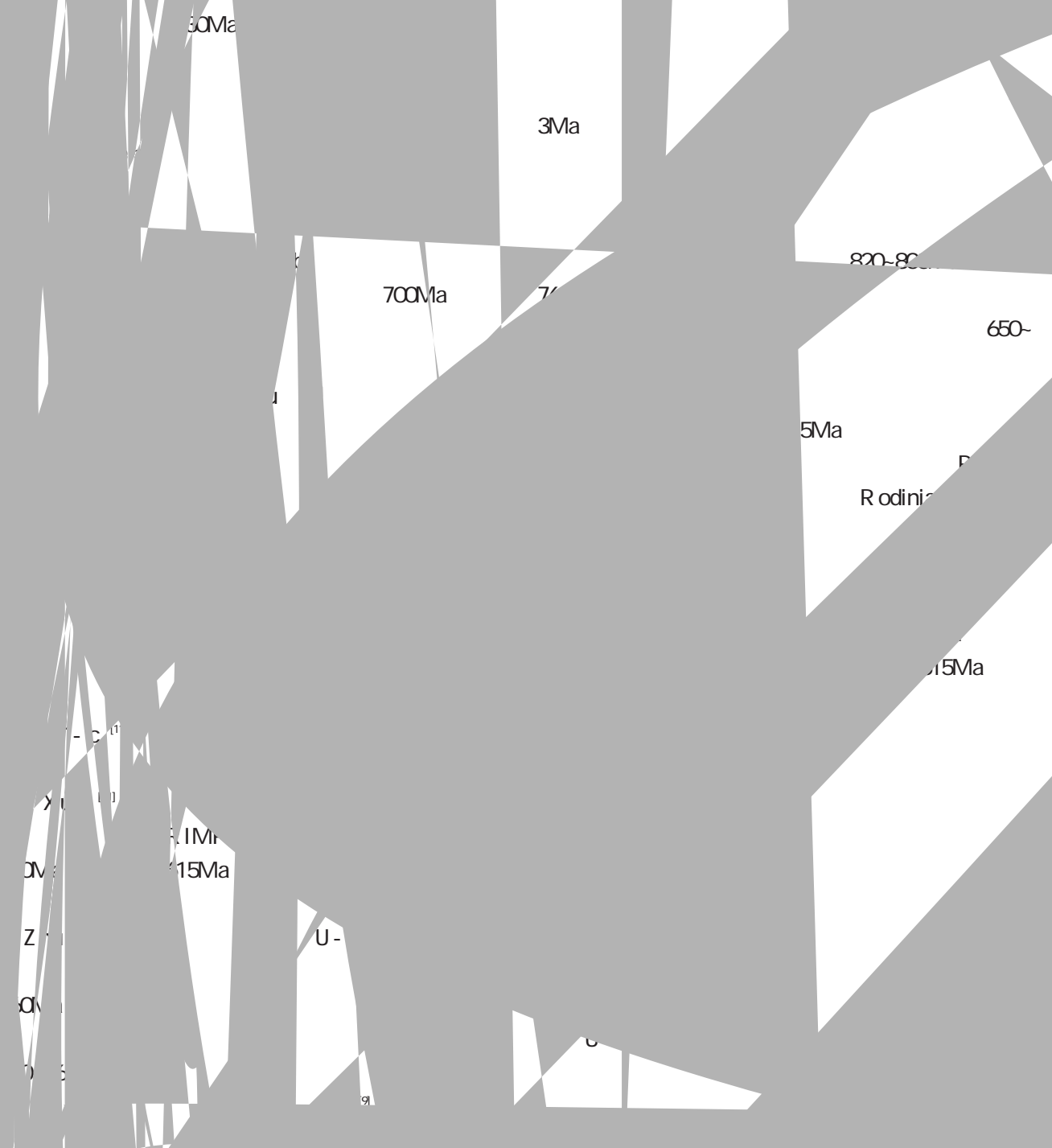


Figure 1. Geological map of China showing tectonic zones and time markers. The map includes labels for various geological periods and events such as 30Ma, 3Ma, 700Ma, 820-800, 650-, 5Ma, Rodinia, 15Ma, and U-.

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