[4-5]

[1]

Rb-Sr

[2]

[3-4]

:

1987- E-mail yexiantao10@mails.ucas.ac.cn *

1

Kalakashi Group

1b

[8-9] Zhang [10]

^{40}Ar-^{39}Ar

1 050 1 020 Ma

[1] Zhang [11]

SHRIMP U-Pb

1 524.7 ± 4.3 Ma N=18, MSWD=1.3

Sangzhutage Group

104

U-Pb

1 460 Ma 2 ^{207}Pb/^{206}Pb 1 468 ± 6 Ma N = 79 MSWD = 0.68 [11]

1.4 Ga[12]

1.5 1.4 Ga

Sailajiazitage Group

390 km^2

[13] 1c

5 000 m

800 m

1c Rb-Sr

1 764 Ma

[1 9]

U-Pb

857 ± 3 Ma N=15 MSWD=1.4 2018

LA-MC-ICPMS U-Pb

839 ± 6 Ma 3 1

850 840 Ma

SHRIMP U-Pb

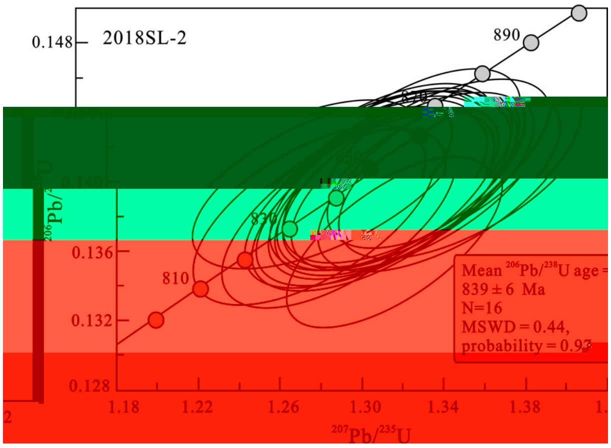
LA-ICPMS U-Pb 890 Ma

[14]

Ailiankate Group

[9]

1b



3 U-Pb

Fig.3 Concordia diagram of U-Pb zircon data for the tuff layer from Sailajiazitage Group

[1]

800 Ma

830 Ma[16] 2

Qiakemakelike Group

1 LA-MC-ICPMS U-Pb

Tab.1 Zircon U-Pb age data analyzed by LA-MC-ICPMS from the tuff in the Sailajiazitage Group

Spot	U/ ×10^{-6}	Th/ ×10^{-6}	^{207}Pb*/^{206}Pb	±%	^{207}Pb*/^{235}U	±%	^{206}Pb*/^{238}U	±%	^{207}Pb/^{235}U Age	1	^{206}Pb/^{238}U Age	1
2018SL-2.1	1 976	1 022	0.068 4	1.31	1.313 2	1.73	0.139 1	1.60	852	15	840	13
2018SL-2.2	369	268	0.069 7	1.39	1.345 2	1.74	0.140 0	1.54	865	15	845	13
2018SL-2.3	485	425	0.068 4	1.34	1.305 8	1.68	0.138 5	1.52	848	14	836	13
2018SL-2.4	190	178	0.067 1	1.57	1.276 7	1.91	0.138 0	1.55	835	16	833	13
2018SL-2.5	228	171	0.067 8	1.49	1.289 2	1.82	0.137 8	1.53	841	15	832	13
2018SL-2.6	341	212	0.067 9	1.37	1.300 1	1.70	0.138 8	1.53	846	14	838	13
2018SL-2.7	346	382	0.068 4	1.46	1.329 7	1.74	0.140 9	1.54	859	15	850	13
2018SL-2.8	441	268	0.068 1	1.33	1.309 4	1.67	0.139 5	1.52	850	14	842	13
2018SL-2.9	174	120	0.068 3	1.68	1.318 4	1.97	0.140 0	1.51	854	17	844	13
2018SL-2.10	144	81	0.066 5	1.84	1.282 8	2.09	0.139 9	1.48	838	18	844	12
2018SL-2.11	1 168	1 734	0.068 8	1.31	1.289 9	1.63	0.136 0	1.49	841	14	822	12
2018SL-2.12	305	266	0.067 7	1.44	1.300 4	1.75	0.139 4	1.50	846	15	841	13
2018SL-2.13	271	205	0.068 7	1.43	1.309 8	1.73	0.138 2	1.49	850	15	834	12
2018SL-2.14	162	113	0.068 5	1.68	1.333 0	2.00	0.141 1	1.55	860	17	851	13
2018SL-2.15	500	362	0.069 9	1.37	1.315 4	1.64	0.136 5	1.46	853	14	825	12
2018SL-2.16	173	116	0.069 6	1.68	1.349 2	1.94	0.140 7	1.52	867	17	848	13

4

750 Ma

[4 22-23]

1.52 Ga [11]

1.0 Ga [10]

Ma 800 Ma [16 17] 1 020 Ma

[6] 5a 1.0 Ga

[7 26] 850 840 Ma

[22]

[24] 5b

Rodinia

5c

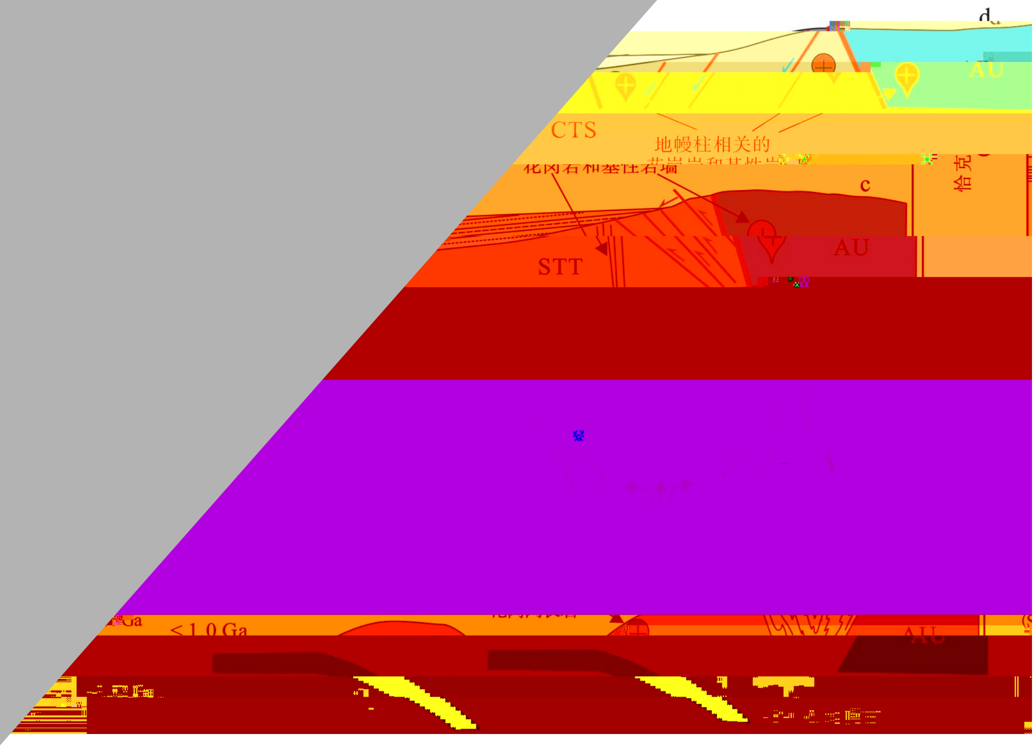
[27] 5d

760 750 Ma

1.9 Ga 750 Ma

Columbia

[11-12] 1 785 Ma



5 - [17]

A schematic diagram to illustrate the relationship between the evolution of the late Mesoproterozoic-

oterozoic sedimentary basins and tectonic evolution process along the southwestern margin of th

1.52

Ga 1.4 1.5 Ga

890 Ma

850 840 Ma

800 Ma <

800 830 Ma 750 Ma

2 1.9 Ga Columbia

1 785 1 117 Ma

1.0 Ga

800 Ma

750 Ma

2000