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[4-5]

[1]

Rb-Sr

[2]

[3-4]

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:

1987-

E-mail [yexiantao10@mails.ucas.ac.cn](mailto:yexiantao10@mails.ucas.ac.cn) \*

Group

|                  |  |                        |                  |   |
|------------------|--|------------------------|------------------|---|
|                  |  |                        | 104              |   |
|                  |  | U-Pb                   |                  |   |
|                  |  | 1 460 Ma               | 2                | <sup>207</sup> Pb/<br><sup>206</sup> Pb |
|                  |  |                        |                  | 1 468 ± 6 Ma                            |
|                  |  | N = 79                 | MSWD = 0.68      | <sup>[11]</sup>                         |
|                  |  | 1.4 Ga <sup>[12]</sup> |                  |   |
|                  |  |                        | 1.5              | 1.4 Ga                                  |
|                  |  |                        |                  | Sailajia-                               |
|                  |  |                        |                  | zitage Group                            |
| 1                |  |                        |                  |   |
|                  |  |                        |                  | 390                                     |
|                  |  |                        | km <sup>2</sup>  |   |
|                  |  | <sup>[13]</sup> 1c     |                  |   |
|                  |  |                        |                  | 5 000 m                                 |
|                  | <i>Kalakashi Group</i>                 |                        |                  |   |
|                  |  | 800 m                  |                  |   |
|                  | 1b                                     |                        |                  |   |
|                  |  | 1c                     |                  | Rb-Sr                                   |
|                  |  | 1 764 Ma               |                  |   |
|                  |  | <sup>[1 9]</sup>       |                  |   |
|                  | <sup>[8-9]</sup> Zhang <sup>[10]</sup> |                        |                  |   |
|                  | <sup>40</sup> Ar- <sup>39</sup> Ar     |                        | U-Pb             |   |
| 1 050            | 1 020 Ma                               | 857 ± 3 Ma             | N=15             | MSWD=1.4 2018                           |
|                  | <sup>[1]</sup> Zhang <sup>[11]</sup>   |                        | LA-MC-ICPMS U-Pb |   |
|                  | SHRIMP U-Pb                            | 839 ± 6 Ma             | 3                | 1                                       |
| 1 524.7 ± 4.3 Ma | N=18, MSWD=1.3                         | 850                    | 840 Ma           |   |
|                  |  |                        | SHRIMP U-Pb      |   |
|                  |  | LA-ICPMS U-Pb          |                  | 890 Ma                                  |

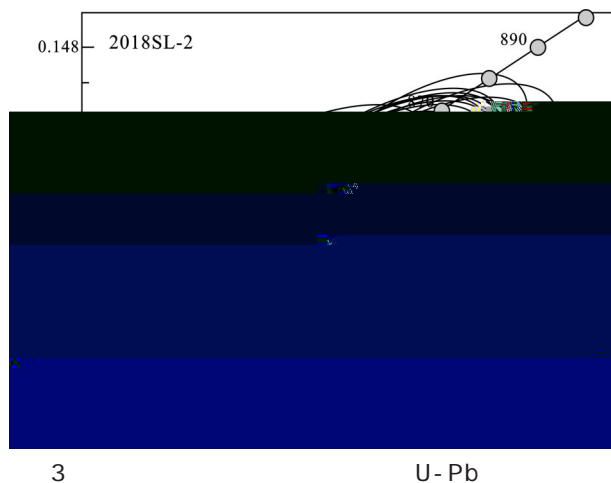
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[14]

*Aliankate Group*

[9]

1b



(11)

800 Ma

830 Ma<sup>[16]</sup> 2

*Qiakemakelike Group*

Fig.3 Concordia diagram of U- Pb zircon data for the tuff layer from Sailajiazitage 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/<br>$\times 10^{-6}$ | Th/<br>$\times 10^{-6}$ | $^{207}\text{Pb}^*$ /<br>$^{206}\text{Pb}$ | $\pm\%$ | $^{207}\text{Pb}^*$ /<br>$^{235}\text{U}$ | $\pm\%$ | $^{206}\text{Pb}^*$ /<br>$^{238}\text{U}$ | $\pm\%$ | $^{207}\text{Pb}/^{235}\text{U}$<br>Age | 1  | $^{206}\text{Pb}/^{238}\text{U}$<br>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 |

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4

750 Ma

[4 22-23]

1.52 Ga <sup>[11]</sup>

1.0 Ga

<sup>[10]</sup>

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

[28]

Ga

750 Ma

Columbia

[11-12]

1 785 Ma

25 Ma

[11]

1 400

Ma A

1 117 Ma

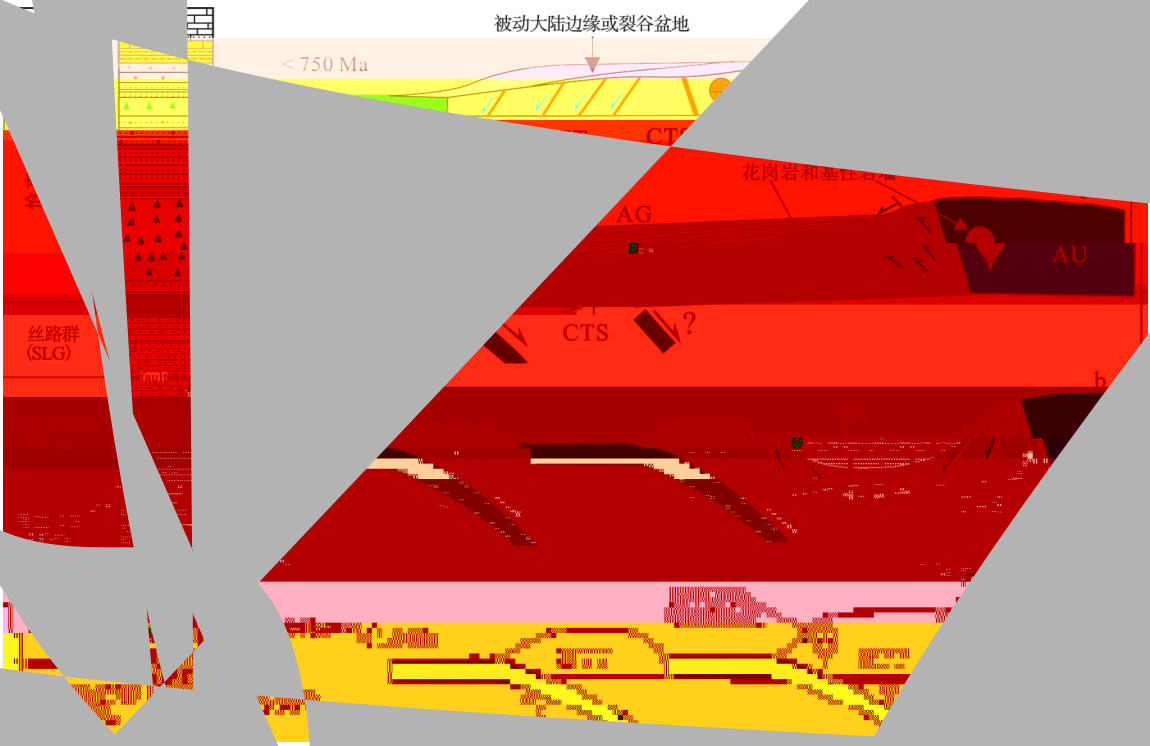
A

[11]

1

被动大陆边缘或裂谷盆地

< 750 Ma



Neo

Neo

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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

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