



35%

20%

2%~5%

2- a

40%~45%

5%~1

1 a 650-615Ma b c

Fig. 1 Distribution of Precambrian strata in Tarim Basin (a), 650-615Ma basic and granitic intrusive rocks with sampling sites (b) and composite columnar section of Neoproterozoic strata in Quruqtagh area c

2 U - Pb

Fig. 2 U - Pb concordia diagram of zircons from Neoproterozoic K - feldspar granite and granodiorite in Quruqtagh area of Tarim Basin

Bi— Hb— Pl— Mc— Or— Q— Mt—

## U-Th-Pb

in Neoproterozoic

eruqtagh area

$^{238}\text{U}/^{206}\text{Pb}$	1	$^{207}\text{Pb}/^{235}\text{U}$	1	$^{207}\text{Pb}/^{206}\text{Pb}$	1
/Ma		/Ma		/Ma	
	3	631	7	628	22
	3	622	10	615	34
	3	625	10	605	34
	4	636	9	652	29
	4	628	14	612	45
	5	636	8	650	27
	5	635	9	653	28
	5	621	13	588	45
	5	634	15	652	48
	6	632	9	646	30
	4	637	11	657	36
	3	635	7	658	23
	5	633	8	655	27
	5	637	9	669	28
	4	629	10	611	34
	3	637	7	646	
	4	637	13	651	
		639	7		
		637	8		
		634			
		636			

1.03 0.1029 0.49 0.8680 1.00

6

19	0.07		
20	0.1164		
21	0.0286	0.0008	
22	0.0334	0.0008	
23	0.0248	0.0007	
24	0.0619	0.0015	0.2822
25	0.0517	0.0014	0.2822
26	0.0547	0.0016	0.2822

---

32

2

Hf

$t_{Hf} (= 630)$

- 8.9

- 5.3-- 2

630Ma)

2

$t_{Hf}()$

[4-518]

Hf

Hf

3

1.5Ga

3

f

$DM^C$

23

Ma<sup>[19-20]</sup>

$t_{Hf}()$

24Ga

Hf

$DM^C$

Hf

800-820Ma

4

Hf

$t_{Hf}()$

3

$t_{Hf}()$

[17]

100Ma

[28]

735

$t_{Hf}()$  diagram of ages of Precambrian

0-63

21

3

25

71

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