the

a.

U - ... ite in Qur
iz ... Hf iso ... indicate that these gr
olveme ... asaltic magma from mantle sources.
m, the ... rgue that the 650~615Ma igneous
d gene ... ted to the breakup of the Rodin
om Ne ... to Cambrian, sedimentary se
ental ma ... ndicates that the Tari
ic implica

2013 - 12 - 02 2014 - 0

1968 - E - m

$\times 10^{-6}$

1

$^{206}Pb/^{238}U$

2 - d $^{206}Pb/^{238}U$

.6±1.3Ma MSWD=0.38

1)~615Ma

b c [10]

Fig. 1 Distribution of Precambri (a), 650~615Ma ba
and granitic intrusive ro b) and composi
columnar section of Ne uruqtagh ar

Or— Q— Mt—

U–Th
opr
a

9KR										/Ma		1
4											628	22
3											615	34
												34
								6				
								6				
								63				
								63				
								63				
								63				
								632				
								627				
								626				
								627				
									4	631	7	64
									4	636	12	644	38
									5	640	6	671	17
									4	640	7	669	21
									4	639	6	650	18
									4	641	5	671	17
									4	637	5	651	17
									4	632	6	63	
									3	636			
					0.40	0.8						
20	925	902	1.02	0.1025	0.39							
21	600	578	1.04	0.1028								
22	4081	2256	1.81									
23	937	989				0.8093	0.82	60				
24	510	49	1.03	0.1029	0.49		1.00					

11	0.0233	7	0					
12	0.0391	1	0					
13	0.0145	4	0					
14	0.0640	6	0					
15	0.0467	2	0					
16	0.0947	4	0					
17	0.0253	7	0					
18	0.0642		0					
19								
20								
2								
2				0.282250	-18.1	-4.6	1395	2366	-0.97
23				255	-18.0	-4.4	1385	2351	-0.98
					-16.2	-3.0	1345	2223	-0.95
					4	-3.1	1349	2237	-0.96
						4.6	1412	2370	-0.95

Hf

[10]

3.2 Hf TTG

2 Hf TTD

ε_{Hf}(=630Ma)

- 8.9~ - 4.2 - 5.3~ - 2.8 ε_{Hf}(=

630Ma) 2 ε_{Hf}( ) [4

ε_{Hf}( ) - 6~ - 4

- 9 ε_{Hf}( )

- 5~ - 3 2 Hf

Hf 1.3~1.5Ga Hf

[17]

Hf $_{DM}^{C}$ 2.3~2.5Ga ε_{Hf}( ) 3

Hf $_{DM}^{C}$ 2.2~ 820Ma 630

2.4Ga Nd

4

735Ma 630Ma

4.1 [20]

ε_{Hf}( )

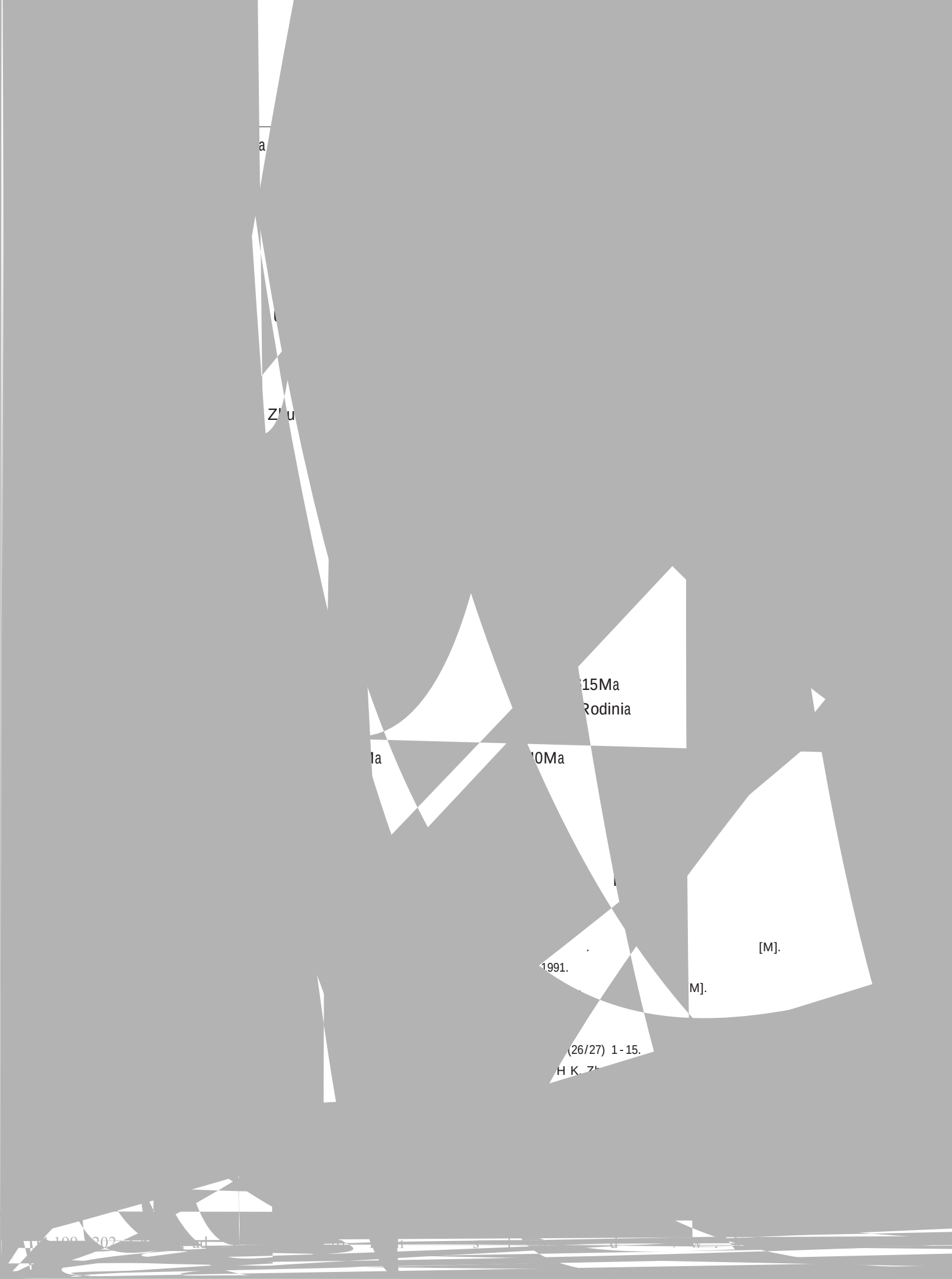
3 - ε_{Hf}( )

3.6~2.2Ga [17]

[14] 820~800Ma

735Ma 735Ma — [9]

Fig. 3 ε_{Hf}( ) diagram of ages of Precambrian rocks in Tarim Basin


15Ma
Rodinia
0Ma
[M].
1991.
M].
(26/27) 1-15.

cratonizatio of the arim Block, hina: P trology, geochemis try Nd - isc pes d U - Pb zirc chronc gy from Archaean gabbro - TT - po ssic granite su Paleop terozoic metamor phic belt[J]. urna of Asian Earth , 201 47: 5 - 20.

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Xiao S ou H B, et al. IMP zi U - Pb age a on N rozoic diamict n NW Chi ec mbrian h, 258.

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