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①

471000 ②

100875 ③

471500

33 ~ 31kaB. P.

33°47'24"N 111°36'28"E 2011 2~4

512

96

60

73

58

225

30%

P534.63*1 P66 K871.11

A

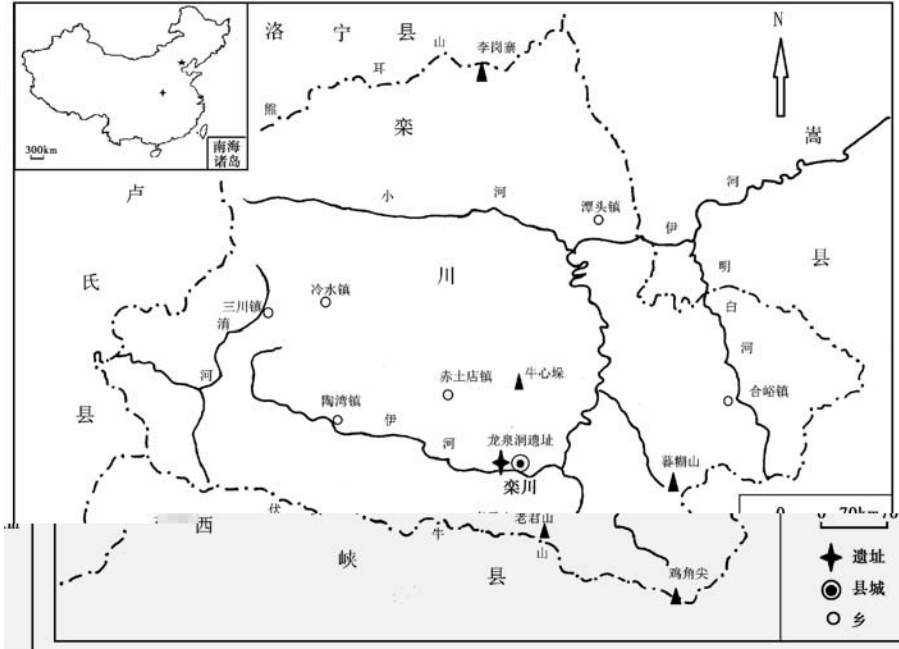
MIS 3

1

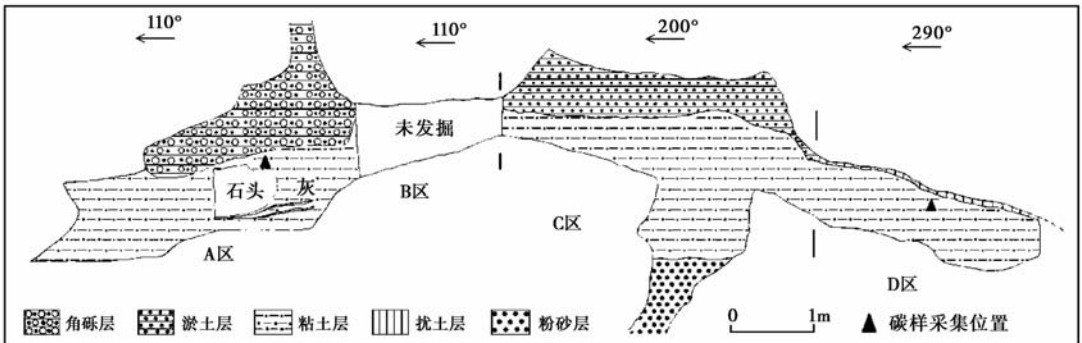
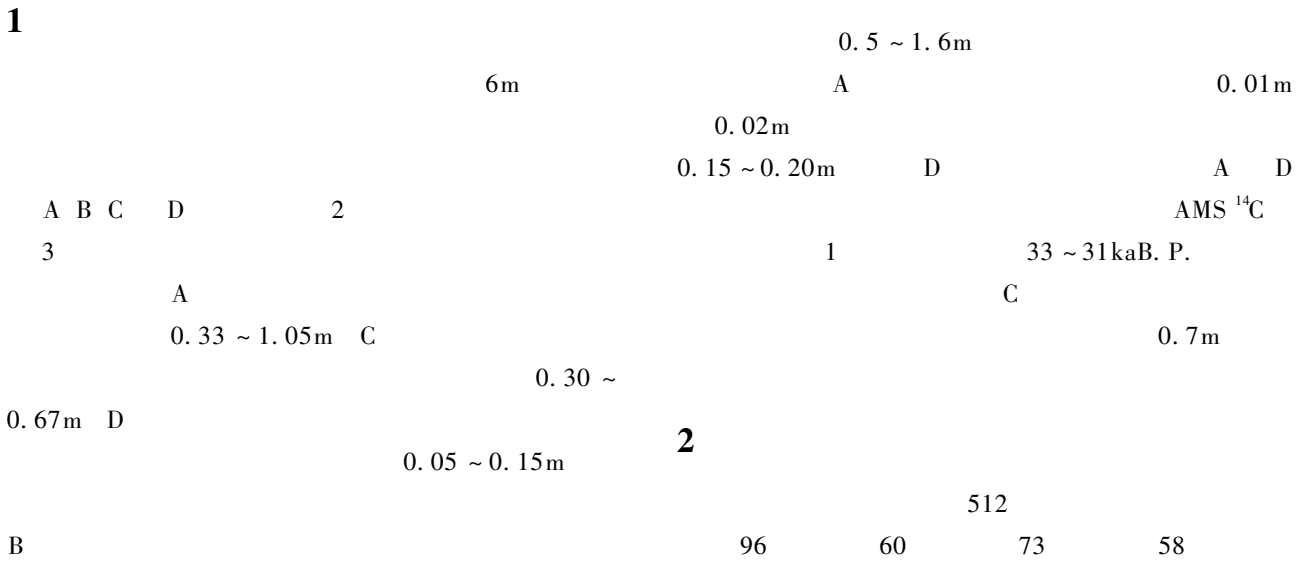
2

3

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1
Fig. 1 Geographic location of Longquan Cave



2
Fig. 2 Section of the Longquan Cave

1 AMS ¹⁴C

Table 1 AMS ¹⁴C dating results

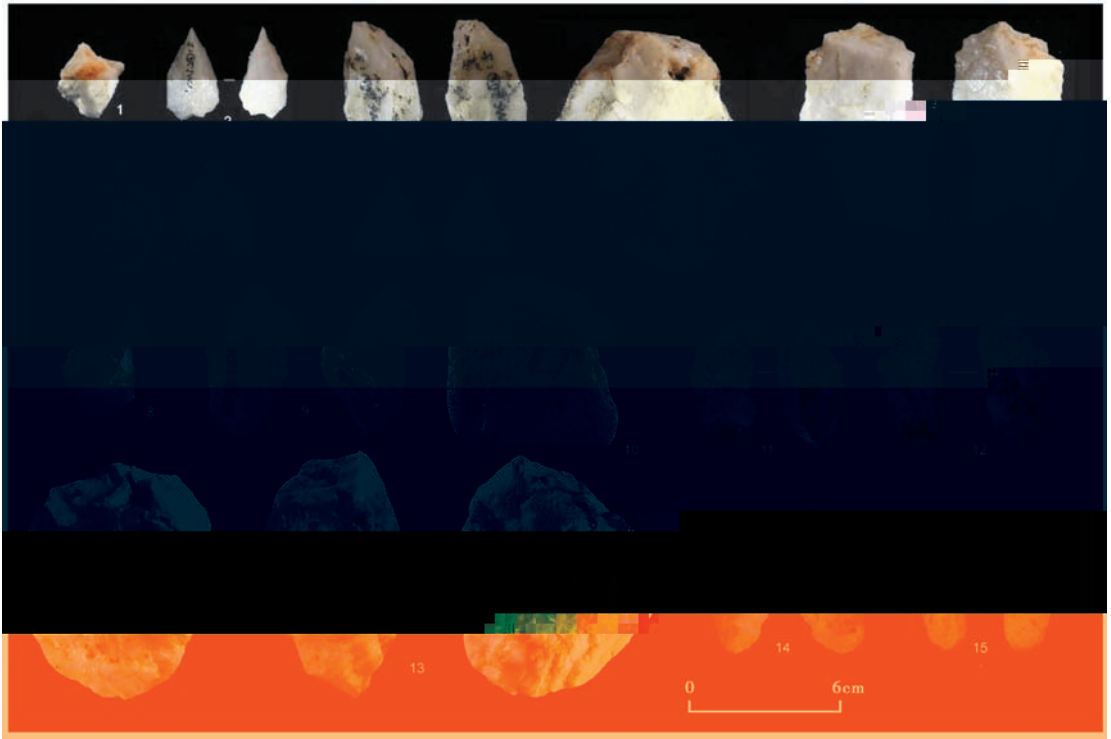
Lab	¹⁴ C /kaB. P.	/cal. BC		
		1σ 68.2%	2σ 95.4%	
BA110237	LCMA2② 1	26620±210	29308 ~ 29084	29435 ~ 28931
BA110238	LCMD2① 1	28610±170	31376 ~ 30842	31608 ~ 30234
225			2 cm	1327
	2 cm	16854	0.5 cm	

2.1

3km

2.2

96	18.7%	14
82		
1		
82	85.4%	76



4

- 1—— LCMA2③ 13 2—— LCMA2⑥ 5 3—— LCMC2⑩ 5 4—— LCMA2④ 10
- 5—— LCMD2⑤ 2 6—— LCMC2⑤ 10 7—— LCMC2⑧ 3 8—— LCMC2⑭ 2
- 9—— LCMD2⑧ 14 10—— LCMC2⑧ 8 11—— LCMC3① 4 12—— LCMC2② 32
- 13—— LCMD2⑦ 17 14—— LCMD2⑧ 36 15—— LCMC3① 7

Fig. 4 Stone artifacts

2.3

					15.6%				
				3		5			8.6%
60		11.7%	2	7	12.1%	79.3%			
	58				57°	123°			97°
1						9		15.52%	
		54	93.1%					21	
	32		59.3%				36.2%		4
12		22.2%		10	6.9%	1/2			17
18.5%	1		3		29.3%	1/2		16	27.6%
	14.5mm		93.8mm					2	
45.2mm		10.5mm	99.2mm			25			
	37.7mm		5.5mm		2		17	29.3%	
36.7mm		16.1mm	2		41		70.7%	5	
		20	34.5%	38					9
65.5%						53.0%			
	10		11 ~ 20		2		22.2%		
	20					2	22.2%		
	47		19		1	11.1%			
40.4%	16	34%	12		4	44.5%			

LCMC2⑩ 5		42.5mm		3			
27.2mm	20.5mm						
25.3mm		38mm					
		72°	4-3				
3	2						
LCMA2③ 13						30%	
22.8mm	21.2mm	10.9mm					
20.1mm	15.1mm		84° 86°				
	65°		76°				
	4-1						
LCMC2⑤ 10		44.5mm					
26.2mm	14.4mm				6		
		17.5mm	10.3mm				
49°	45°	4-6				-	
4	2						
LCMA2⑥ 5			34mm			7	
20.4mm	11.7mm			"			
31.7mm	10.1mm		67° 50°				"
	50°		74°		¹⁴ C	26kaB. P.	
4-2							
LCMC2⑧ 3		31.6mm					
26.4mm	8.6mm						
27.1mm	32.1mm					^{8 9}	¹⁴ C
	62° 67°	30°	4-7		28130±1370	28945±1370	33155±645
5	1						
LCMC2⑭ 2		43.3mm					
28.5mm	13.7mm						
		19.5mm					
		16.7mm	31.1mm				¹⁰
	60° 71°	45°					150m
	75°	4-8					
6	31		5				
16.1%	22	71.0%	4				
12.9%			84.9mm			¹¹	
	67.2mm	46.7mm					
LCMC2⑧ 8		65.2mm					
61.5mm	44mm					30kaB. P.	
1	36.1mm×35.7mm	4-10					

12

28

25kaB. P.

3

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13 ~ 15

16 ~ 22

25kaB. P.

23

¹⁴C 24100±500aB. P.

9

24 25

23 ~ 16kaB. P. ^{26 27}

27

392

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40

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PRELIMINARY ANALYSIS OF LITHIC ASSEMBLAGE EXCAVATED IN LONGQUAN CAVE HENAN PROVINCE CENTRAL CHINA

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Abstract

Longquan Cave is situated in the Longquanshan park in Luanchuan County of Henan Province 33°47'24" N and 111° 36'28" E. It is an upper Paleolithic site.

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