

GSA Data Repository Item # 7714

Title of article Triassic blueschist from northern California and north-  
central Oregon

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see Geology v. 5, p. 659 - 663

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from Blueschist, Northern California and North-Central  
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Hotz + others  
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TABLE 1. K-AR AGES AND ANALYTICAL DATA FOR WHITE MICA FROM BLUESCHIST, NORTHERN CALIFORNIA AND NORTH-CENTRAL OREGON

Area	Map No.	Field No.	Lat. (N)	Long. (W)	Conventional analyses			Calculated age (m.y.)
					$K_2O$ (percent)	$^{40}Ar$ (10 <sup>-9</sup> moles per gram)	$^{40}Ar$ rad (percent)	
Northern California	1	FJ-14-71	41°35.8'	122°49.3'	9.83	3.346	91.6	222±4.4
Northern California	3	H-5B-71	41°45.6'	122°36.1'	10.32	3.504	82.4	222±2.5
					$^{40}Ar/^{39}Ar$ analyses			
Northern California	2	FJ-7-71	41°36.3'	122°48.0'	23.48	0.02437	0.008945	88.7
North-central Oregon	4	DAS 67-177A	44°36.7'	120°09.6'	23.43	7.280	0.01642	81.8

$^{40}Ar/^{39}Ar$  analyses

$^{40}Ar/^{39}Ar$      $^{37}Ar/^{39}Ar$  #     $^{36}Ar/^{39}Ar$     J\*\*

\* The ± figures are estimates of analytical precision at the 68 percent confidence level.  $\lambda_e = 0.572 \times 10^{-10} \text{ yr}^{-1}$ ;

$\lambda_e' = 8.78 \times 10^{-13} \text{ yr}^{-1}$ ;  $\lambda_\beta = 4.963 \times 10^{-10} \text{ yr}^{-1}$ ;  $^{40}K/K_{total} = 1.167 \times 10^{-4}$ .

# Corrected for  $^{37}Ar$  decay ( $t_{1/2} = 35.1$  days).

\*\* J is a measure of the integrated fast neutron flux as found from the monitor mineral data.

Mineralogy

- 1 (FJ-14-71) quartz, white mica, crossite, lawsonite, colorless garnet, (sphene)
- 2 (FJ-7-71) quartz, white mica, (crossite), lawsonite, (chlorite)
- 3 (H-5B-71) (quartz), white mica, crossite, lawsonite, aegirine-augite, sphene, (epidote)
- 4 (DAS-67-177A) quartz, white mica, crossite, lawsonite, stilpnomelane(?), anthophyllite