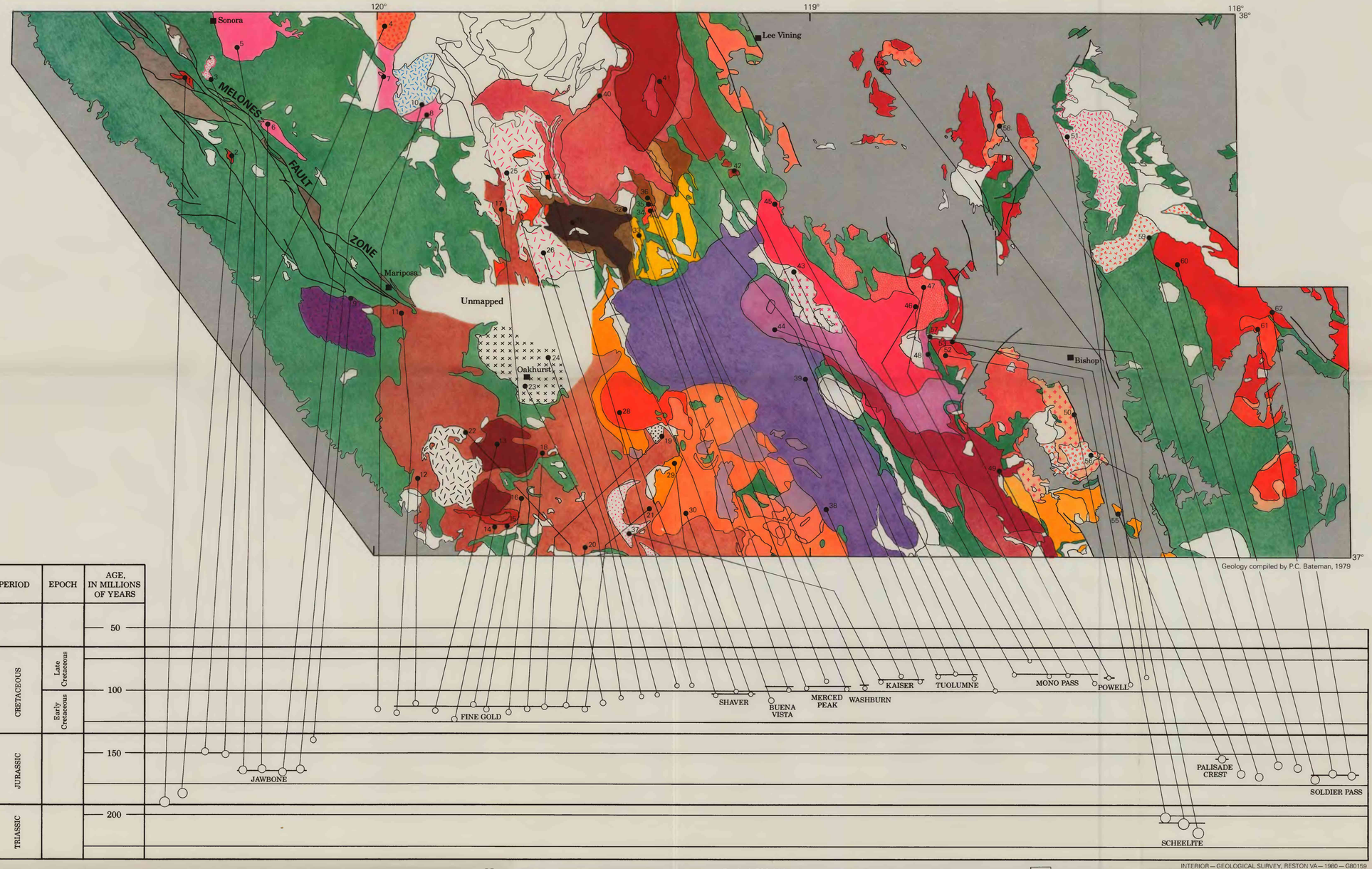

EXPLANATION

Sample numbers	Dated formation or pluton	Undated units	Granitoid sequence	
41	Cathedral Peak Granodiorite	TUOLUMNE	Late Cretaceous	CRETACEOUS
40	Quartz diorite of May Lake			
42	Granodiorite of Kuna Crest			
45, 46	Granite of Mono Recesses	MONO PASS		
47	Round Valley Peak Granodiorite			
44, 48	Granodiorite of Lake Edison			
37	Leucogranite of Big Sandy Bluffs	KAISER		
38, 39	Mount Givens Granodiorite			
49	Lamarck Granodiorite	POWELL		
51	Granite of Fellister Flats			
50	Leucogranite of Rawson Creek			
36	Granodiorite of Red Devil Lake	WASHBURN		
35	Metavolcanic rock	MERCED PEAK		
34	Granite porphyry of Post Peak			
33	Granodiorite of Jackass Lakes			
	Granodiorite of Ostrander Lake	BUENA VISTA		
32	Granodiorite of Illilouette Creek			
43	Leucogranite of Graveyard Peak		Early Cretaceous	
27	Taft Granite			
25, 26	El Capitan Granite			
28	Granodiorite of Whiskey Ridge	SHAVER		
29	Granite of Shuteye Peak			
30	Granodiorite of Dinkey Creek			
22	Granodiorite of Knowles			
23, 24	Oakhurst pluton			
13	Plagiogranite of Ward Mountain	FINE GOLD		
11,12,14,15,16,18,20,21	Tonalite of Blue Canyon			
17	Granodiorite of The Gateway			
19	Tonalite of Ross Creek			
10	Granodiorite of Sawmill Mountain			
9	Guadalupe igneous complex			JURASSIC
3	Page Mountain pluton			
4	Granodiorite of Cottonwood Creek			
55	Tinemaha Granodiorite	PALISADE CREST		
58	Granite of Casa Diablo Mountain			
59	Granodiorite of Mount Barcroft			
5	Standard pluton	JAWBONE		
6	Cobb Creek pluton			
7, 8	Quartz diorite of Granite Creek			
57	Quartz diorite of Pine Creek mine			
56	Granite west of Warren Lake			
60, 62	Quartz monzonite of Beer Creek	SOLDIER PASS		
61	Monzonite of Joshua Flat			
2	Don Pedro pluton			
1	Chinese Camp pluton			
52	Tungsten Hills Quartz Monzonite	SCHEELITE	TRIASSIC	
53	Wheeler Crest Quartz Monzonite			
54	Granodiorite of the Benton Range			
	Ultramafic rocks		UPPER PALEOZOIC (?)	
	Country rocks (includes meta-volcanic rock of sample 35)		CRETACEOUS TO PRECAMBRIAN	
	Alluvial deposits			
	Granitoids not dated in this program			
	Contact			
	Fault			

EXPLANATION

○ $^{206}Pb/^{238}U$ ages—Radii equal ±2 percent of the age (estimated analytic error on individual samples)

—— Optimum average age of each named granitoid sequence

N

Scale 1:500,000

10 0 10 20 30 40 MILES

10 0 10 20 30 40 50 KILOMETERS

Calif

INTERIOR—GEOLOGICAL SURVEY, RESTON VA—1980—G80159

SIMPLIFIED GEOLOGIC MAP OF THE CENTRAL SIERRA NEVADA SHOWING THE LOCATION OF COUNTRY ROCK; GRANITOID PLUTONS, FORMATIONS, AND SEQUENCES; AND DATED SAMPLES

This map was printed from negatives prepared by photographic color-separation of hand-colored original.