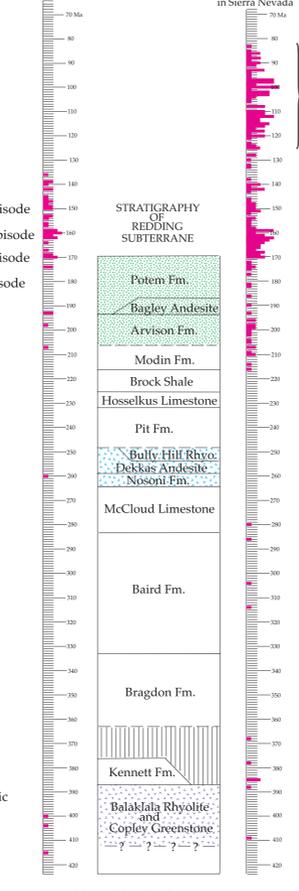


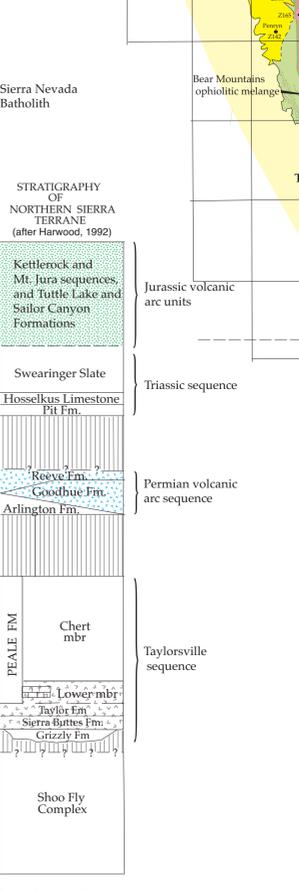
Geologic Time Scale is after Palmer and Geissman (1983) except for ages of boundaries from Callovian to Tithonian which are after Pessagno and Blome (1990)

PERIOD	STAGE	AGE (Ma)		
CRETACEOUS	Late	65-71.3		
	Early	Maastrichtian	65-71.3	
		Campanian	83.5-89.0	
		Santonian	89.0-93.5	
		Turonian	93.5-100.0	
		Cenomanian	100.0-112.0	
	JURASSIC	Late	112-144	
		Early	Albian	112-121
			Aptian	121-127
			Barremian	127-132
Hauterivian			132-137	
Valanginian			137-144	
Middle		Berriasian	144-150	
		Tithonian	150-154	
		Kimmeridgian	154-161	
		Oxfordian	161-169	
	Callovian	169-176		
TRIASSIC	Late	176-206		
	Middle	Bathonian	176-180	
		Keokukian	180-188	
		Moabian	188-190	
		Aselmannian	190-195	
		Hettangian	195-202	
	Early	Bhaetic	202-206	
		Norian	206-211	
		Carnian	211-221	
		Ladinian	221-234	
Anisian		234-242		
PERMIAN	Late	242-252		
	Middle	Olenekian	242-248	
		Induan	248-252	
		Tartarian	252-256	
		Kungurian	256-269	
		Artinskian	269-282	
	Early	Sarmatian	282-290	
		Aselian	290-296	
		Gzelian	296-303	
		Kasimovian	303-311	
Moscovian		311-323		
PENN.	Late	323-327		
	Middle	Bashkirian	323-327	
		Serpukhovian	327-342	
		Visean	342-354	
		Tournaisian	354-370	
		Famennian	370-380	
	Early	Frasnian	380-391	
		Givetian	391-400	
		Eifelian	400-412	
		Embian	412-417	
Praghan		417-427		
SILURIAN AND OLDER	Lockhovian	427-447		
	Older	>447		

Histogram of dated plutonism in Klamath Mountains



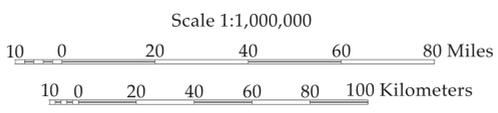
Histogram of dated plutonism in Sierra Nevada



Note: Colored volcanic pattern is shown only on dominantly volcanic units of the above stratigraphic columns

CORRELATION OF THE KLAMATH MOUNTAINS AND SIERRA NEVADA

Sheet 1: Map showing accreted terranes and plutons of the Klamath Mountains and Sierra Nevada



Compiled by William P. Irwin  
2003

This map combines and modifies two Open-File maps (OF 99-374; Klamath Mountains; and OF 01-299; Sierra Nevada) that had been compiled and modified mainly from Jennings (1977), Harwood (1992), Irwin (1994), Jayko (1988), Graymer and Jones (1994), Edelman and Sharp (1989), Schweickert and others (1999), Saucedo and Wagner (1992), Saleeby and Sharp (1980), and Wagner and others (1981 and 1991), and various other sources.

For detailed lists of sources for the isotopic age data see Irwin and Wooden (1999 and 2001). Isotopic age data for the Klamath Mountains are from Albers and others (1981), Everenden and Kistler (1970), Fraticelli and others (1985), Gray (1985), Hacker and Ernst (1993), Harper and others (1994), Hotz (1971), Kistler (1999), Lanphere and Jones (1978), Lanphere and others (1968), Lanphere *in* Irwin (1985), Renne (1987), Saleeby and Harper (1993), Saleeby and others (1982), Wallin (1990), Wallin and Metcalf (1998), Wooden *in* Irwin and Wooden (1999), Wright (1981), Wright and Fahan (1988), and Yule (1996). The isotopic age data for the Sierra Nevada are from Bateman (1992), Chen and Moore (1979; 1982), Edelman and others (1989), Girty and others (1995), Guglielmo (1993), Saleeby (1982), Saleeby and Berman (1979), Saleeby and Sharp (1979; 1980), Saleeby and others (1987a; 1987b; 1987c; 1989a; 1989c), Stern and others (1981), Wooden and others (1999), and Wooden *in* Irwin and Wooden (2001).

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic Code. Any use of trade, product or firm names in this report is for descriptive uses only and does not imply endorsement by the U.S. Government.