

Table DR1: Data Sources

SW U.S. and N. Mexico	
Cintura Fm., Bisbee Basin	Dickinson et al. (2009)
Colorado Plateau ergs	Dickinson and Gehrels (2003, 2009)
Chinle-Dockum transcontinental river	Dickinson and Gehrels (2008a)
Western Nevada back-arc basin	Manuzak et al (2000), Dickinson and Gehrels (2008a), Dickinson et al. (2010)
Sierra Nevada and Coast Ranges, CA	
Upper Great Valley Group (U-GVG)	Degraaff-Surpless et al. (2002) locations SJ, CC, and C Depositional ages from Linn et al. (1992), range is ca. 75–100 Ma.
Middle Great Valley Group (M-GVG)	Surpless and Augburger (2009) Lodoga petrofacies of the Great Valley Group.
“Tithonian” Great Valley Group (T-GVG)	Surpless et al. (2006) and Wright and Wyld (2007) Depositional ages based on youngest zircons in sample incorporating error.
Mariposa Fm. (MAR)	Snow and Ernst (2008) Depositional age = ca. 152 +/- 1 Ma. Plotted as 152 +/- 5 Ma.
Shoo Fly Complex, Lang-Duncan-Culbertson allochthons (LDC)	Harding et al. (2000) Depositional age is constrained as “Pre-Late Devonian” (Harding et al., 2000, p. 45).
Picayune Valley Fm. (P)	Spurlin et al. (2000)
Klamath Mountains, CA-OR	
Upper Great Valley Group (U-GVG)	DeGraaff-Surpless et al. (2002) Redding Section. Depositional ages from Linn et al. (1992), range is ca. 83–93 Ma.
Klamath River Conglomerate (KRC)	Surpless and Augburger (2009)
Galice Fm. (GAL)	Izsak et al. (2004), description only, data not plotted.
Galice Fm. (GAL)	Miller et al. (2003) and Jonathan Miller (2010, personal communication)
North Fork terrane (NFT)	Scherer and Ernst (2008) Depositional age is ca. 172–186 Ma.
Eastern Hayfork terrane (EHT)	Scherer et al. (2010)
Antelope Mtn. Quartzite (AMQ)	Wallin et al. (2000).

Blue Mountains OR-ID

Mitchell Inlier (MI), Hudspeth Fm.	B. Housen (2008, personal communication) Depositional ages from Housen and Dorsey (2006), range is ca. 95–110 Ma.
Coon Hollow Fm. (CH)	LaMaskin et al. (<i>in review</i>)
Snowshoe and Lonesome formations (John Day region Jurassic) (SL)	LaMaskin et al. (2011)
Baker terrane (BT), Badger Creek Unit	Alexander and Schwartz. (2009) and J. Schwartz (2010, personal communication)

NW Cascades, WA, and Southern B.C.

Bell Pass Sandstone-Tonga-Nooksack (T-N)	Brown and Gehrels (2007)
Methow (MT)	DeGraaff-Surpless et al. (2002) Harts Pass & Winthrop fms., Jackass Mtn. Gp.
Easton-Fidalgo-Lummi-Constitution (EFLC)	Brown and Gehrels (2007)
Ingalls Graywacke (IG)	Graphically adapted from Harper et al. (2003)
Lookout Mountain Fm. (LM)	MacDonald (2006)
Yellow Aster Complex, Bell Pass Mélange (YA)	Brown and Gehrels (2007)

NW Cascades, WA, B.C., and AK

Gravina Belt (GRAV)	Kapp and Gehrels (1998), Brown and Gehrels (2007)
All Yukon-Tanana in Coast Mtns. (YTT-CM)	Gehrels and Kapp (1998)
Southeastern Yukon-Tanana -1 (SEYTT-1)	Nelson and Gehrels (2007)
Southeastern Yukon-Tanana -2 (SEYTT-2)	Piercey and Colpron (2009)