

Lawsonite blueschists and lawsonite eclogites as proxies for paleo-subduction zone processes: A review

Tsujimori, T. and Ernst, W.G.

Table S1 Blueschist (HP–UHP glaucophane-bearing rock) compilation for Fig. 3. Locations, ages and references (with digital object identifier [doi]).

Country	Blueschist locality (Complex/Unit)	Age (Ma)	Age (Ma) for histogram	Blueschist-type	Eclogite-type	Na-bearing phase	Presence of garnet	References
North America								
USA (East)	Vermont	460-470	470	EpBS		Ab		Castonguay et al. (2012) [doi:10.1130/B30487.1]; Laird et al. (1984) [doi:10.2475/ajs.281.2.9]
USA (Alaska)	Ross River	260-270	270	EpBS	GlnEC	Omp, Pg	✓	Erdmer (1987) [doi:10.1139/e87-136]; Erdmer et al. (1998) [doi:10.1139/e87-136M>2.3.CO;2]; Hansen & Dusel-Bacon (1998) [doi:10.1130/0016-7606(1998)110<0211:SAKEOT>2.3.CO;2]
USA (Alaska)	Fairbanks	180-210	210	EpBS	GlnEC	Omp, Pg	✓	Douglas et al. (2002) [doi:10.1139/E02-024]; Brown & Forbes (1986) [GSA Memoir]
USA (Alaska)	Kodiak Islands	196-204	204	LwsBS/PA, EpBS		Ab		Roeske et al. (1989) [doi:7606(1989)101<1021:IAOGSO>2.3.CO;2]; Amato & Pavlis (2010) [doi:10.1130/G30719.1]; López-Carmona et al. (2011) [doi:10.1016/j.lithos.2010.10.007]
USA (Alaska)	Brooks Range	>120	125	EpBS		Ab		Gottschalk & Oldow (1988) [doi:10.1130/0091-7613(1988)016<0395:LANFIT>2.3.CO;2]; Gottschalk (1998) [doi:10.1130/0-8137-2324-8.141]
USA (Alaska)	Nome Group (Seward Peninsula)	>160	165	EpBS, LwsBS		Ab, Pg	✓	Hannula & McWilliams (1995) [doi:10.1111/j.1525-1314.1995.tb00209.x]
Canada	New Brunswick	447	447	EpBS		Ab		van Staal et al. (2008) [doi:10.1130/B26324.1]
Canada	Pinchi Lake	211-223	223	LwsBS	LwsEC	Jd, Omp	✓	Paterson & Harakal (1974) [doi:10.1139/e74-097]; Ghent et al. (1993) [doi:10.1111/j.1525-1314.1993.tb00147.x]
Canada	Dease Lake	174	174	LwsBS		Ab		Mihalynuk et al. (2004) [doi:10.1130/B25393.1]
Canada	Vedder Complex	229-285	285	EpBS		Ab		Armstrong et al. (1983) [doi:10.1130/0016-7606(1983)94<451:LPHMRI>2.0.CO;2]
Canada	Bridge River	230	230	EpBS		Ab	✓	Cordey & Schiarizza (1993) [doi:10.1130/0091-7613(1993)021<0263:LLPRTB>2.3.CO;2]
USA (West)	Olympic Peninsula	5-10	10	LwsBS/PA		Ab		Br&on & Calderwood (1990) [doi:10.1130/0091-7613(1990)018<1252:HPMAUO>2.3.CO;2]
USA (West)	San Juan Island	124	124	LwsBS		Ab		Brown et al. (2004) [doi:10.1139/E05-033]; Glassley et al. (1976) [doi:10.1130/0091-7613(1976)4<301:SOCLPA>2.0.CO;2]
USA (West)	Skookum Gulch	454	454	LwsBS		Ab		Cotkin (1987) [doi:10.1007/BF00375233]; Grove et al. (2008) [doi:10.1130/2008.2438(08)]
USA (West)	Stuart Fork	214-224	224	LwsBS		Ab		Goodge (1990) [doi:10.1130/0016-7606(1990)102<0086:TEOACL>2.3.CO;2]
USA (West)	Mitchell	223	223	LwsBS		Ab		Hotz et al. (1977) [doi:10.1130/0091-7613(1977)5<659:TBFNCA>2.0.CO;2]; Schwartz et al. (2011) [doi:10.1130/B30327.1]
USA (West)	Fort Jones	Triassic?	230	LwsBS		Omp		Stovall & Shimabukuro (2013) [GSA Cord Section Abstract]
USA (West)	Condrey Mtn	118-167	167	EpBS		Ab		Miller & Earnst (1998) [doi:10.1080/00206819809465218]; Helper (1986) [GSA Memoir]
USA (West)	Shuksan	120-160	160	EpBS, LwsBS/PA		Ab		Haugerud et al. (1981) [doi:10.1130/0016-7606(1981)92<374:SAMHOT>2.0.CO;2]; Brown et al. (1982) [doi:10.1130/0016-7606(1982)93<1087:PSAARO>2.0.CO;2];
USA (West)	Red Ant	157-190	190	LwsBS/GS		Ab		Hacker & Goodge (1993) [doi:10.1130/SPE255-p277]; Hacker (1993) [doi:10.1130/0016-7606(1993)105<0637:EOTNSN>2.3.CO;2]
USA (West)	South Fork Mtn	121	121	EpBS		Ab		Hacker & Goodge (1993) [doi:10.1130/SPE255-p277]; McDowell et al. (1984) [doi:10.1130/0016-7606(1984)95<1373:GSAOOT>2.0.CO;2];
USA (West)	Colebrooke	128-145	145	LwsBS		Ab		Brown & Blake (1987) [doi:10.1029/TC006i006p00795]
USA (West)	Redwood Creek	120?	120	LwsBS		Ab		Cashman et al. (1986) [doi:10.1130/0016-7606(1986)97<35:DHARTS>2.0.CO;2]
USA (West)	High-grade rocks, Franciscan	132-169	169	EC-LwsBS, EpBS-EC	GlnEC, LwsEC	Omp, Jd, Pg	+	Wakabayashi et al. (2010) [doi:10.1130/B30017.1]; Mulcahy et al. (200) [doi:10.1130/G3029A.1]; Wakabayashi & Dumitru (2007) [doi:10.2747/0020-6814.49.10.873]
USA (West)	Skaggs Spring, Franciscan	132	132	LwsBS		Jd, Pg		Wakabayashi & Dumitru (2007) [doi:10.2747/0020-6814.49.10.873]
USA (West)	Pickett Peak, Franciscan	121	121	EpBS		Ab		Dumitru et al. (2010) [doi:10.1029/2009TC002542]; Wakabayashi & Dumitru (2007) [doi:10.2747/0020-6814.49.10.873]
USA (West)	Yolla Bolly, Franciscan	100-110	110	LwsBS		Ab		Dumitru et al. (2010) [doi:10.1029/2009TC002542]
USA (West)	Diablo Range	<85	80	LwsBS		Ab, Jd		Wakabayashi (2010) [doi:10.1016/j.tecto.2011.11.006]
USA (West)	Sur-Nacimiento	70-88	88	LwsBS		Jd?		Cowan (1991) [10.1130/0016-7606(1978)89<1415:OBCRI>2.0.CO;2]
USA (West)	Pelona-Orocopia- Rand	60	60	EpBS		Ab		Jacobson et al. (1996) [doi:10.1130/0091-7613(1996)024<0547:SAEOTP>2.3.CO;2]
USA (West)	Santa Catalina	105-115	115	LwsBS		Ab		Grove et al. (2008) [doi:10.1130/2008.2436(15)]
Mexico	Acatlán Complex	320-350	350	EpBS	GlnEC	Ab, Omp	✓	Vega-Granillo et al. (2008) [doi:10.1130/B226031.1]; Duncan Keppie et al. (2010) [doi:10.1016/j.tecto.2010.09.019]; Duncan Keppie et al. (2012) [doi:10.1016/j.gr.2011.07.020]
Mexico	Puerto Nuevo, Baja	100-110	110	EpBS, LwsBS		Ab		Baldwin & Harrison (1998) [doi:10.1130/0016-7606(1998)110<1094:MMAMTL>2.3.CO;2]; Baldwin et al. (1992) [doi:10.1130/0016-7606(1992)104<0018:TPTTHO>2.3.CO;2]; Sedlock et al. (1988) [doi:10.1130/0091-7613(1988)016<0623:TSOBAI>2.3.CO;2]

Country	Blueschist locality (Complex/Unit)	Age (Ma)	Age (Ma) for histogram	Blueschist-type	Eclogite-type	Na-bearing phase	Presence of garnet	References
Mexico	Santa Margarita Islands	<126	110	EpBS/GS		Ab		Forman et al. (1971) [XXXXX]; Bonini & Baldwin (1998) [doi:10.1130/0016-7606(1998)110<1094:MMAMTL>2.3.CO;2]
Cuba	Escambray, Cuba	66-67	67	LwsBS, EpBS	GlnEC	Ab, Pg, Omp	✓	Schneider et al. (2004) [doi:10.1111/j.1525-1314.2004.00510.x]; García-Casco et al. (2006) [doi:10.1344/105.000000358]
Cuba	Eastern Cuba	72-75	75	EpBS		Ab		García-Casco et al. (2006) [doi:10.1344/105.000000358]; Somin et al. (1992) [doi:10.1080/00206819209465587]
Cuba	Western Cuba	113	113	EpBS		Ab		García-Casco et al. (2006) [doi:10.1344/105.000000358]; Somin et al. (1992) [doi:10.1080/00206819209465587]
Dominican Republic	Samaná, DR	33-80	80	LwsBS, EpBS	GlnEC, LwsEC	Ab, Omp	✓	Krebs et al. (2008) [doi:10.1016/j.lithos.2007.09.003]; Escuder-Viruet et al. (2008) [doi:10.1016/j.jsg.2011.02.006]; Zack et al. (2003) [doi:909-916, doi:10.1127/0935-1221]; Nagle (1984) [doi:10.1130/0016-7606(1974)85<1461:BEPMBA>2.0.CO;2]
Jamaica	Jamaica	77	77	EpBS/PA, LwsBS?		Ab		Abbott et al. (2008) [doi:10.1002/gj.1126]; Abbott et al. (2003) [doi:10.2747/0020-6814.45.1.1]
Guatemala	North Motagua Mé lange	70-80	80	(Lws)BS-EC- EpBS	GlnEC	Omp, Pg	✓	Harlow et al. (2003) [doi:10.4454/ofioliti.v28i2.199]; Harlow et al. (2004) [doi:10.1130/G19990.1]; Brueckner et al. (2009) [10.1016/j.epsl.2009.04.032]
Guatemala	South Motagua Mé lange	132-144	144	LwsBS-EC- LwsBS	LwsEC	Jd, Omp	✓	Harlow et al. (2003) [doi:10.4454/ofioliti.v28i2.199]; Harlow et al. (2004) [doi:10.1130/G19990.1]; Tsujimori et al. (2006) [doi: 10.1130/2006.2403(09)]; Brueckner et al. (2009) [10.1016/j.epsl.2009.04.032]
Nicaragua	Siuna	139	137	EpBS/EA		Ab	+	Flores et al. (2014) [in press]
South America								
Venezuela	Puerto Cabello	35-37	37	(Lws)EpBS-EC	Gln-KyEC	Ky, Pg	✓	Sission et al. (1997) [doi:10.1093/petroj/38.1.65]; Avé Lallemant & Sisson (2005) [doi:10.1130/0-8137-2394-9.193]
Venezuela	Villa de Cura	80	80	LwsBS		Ab		Smith et al. (1999) [doi:10.1130/0016-7606(1999)111<0831:TCPTTP>2.3.CO;2]
Columbia	Jambalo	63-71	71	EpBS		Ab	✓	Bustamante et al. (2011) [doi:10.1344/105.000001697]
Ecuador	Raspas	123-132	132	(Lws)EpBS-EC	GlnEC	Pg, Omp	✓	John et al. (2010) [doi:10.1007/s00410-009-0427-0]; Gabriele et al. (2004) [doi:10.1127/0935-1221/2003/0015-0977]; Arculus et al. (1999) [doi:10.1130/0091-7613(1999)027<0547:GWISAA>2.3.CO;2]
Chile	Coastal Range (41° S), Chile	320-360	360	EpBS-EC	GlnEC	Omp	✓	Kato et al. (2008) [doi:10.1139/E08-006]
Chile	Coastal Range (34° S), Chile	292–319	319	EpBS		Ab	✓	Willner et al. (2004) [doi:10.1016/j.lithos.2004.03.002]; Willner et al. (2005) [doi:10.1093/petrology/egi036]
Chile	Diego de Almagro	117-122	122	EpBS		Ab	✓	Willner et al. (2004) [doi:10.1007/s00710-004-0033-9]
Chile	Firegion Andes	157-164	164	EpBS		Ab		Hervé et al. (2008) [doi:10.1344/105.000000240]
Chile	Diego Ramírez Islands	169	169	LwsBS		Ab		Wilson et al. (1989) [doi:10.1130/0091-7613(1989)017<0011:MMFWAA>2.3.CO;2]; Grunow et al. (1992) [doi:10.1130/0016-7606(1992)104<1497:SGAGOS>2.3.CO;2]; Davidson et al. (1989) [Revista Geologica de Chile]
Antarctica								
Antarctica	Elephant Islands	101-109	109	LwsBS, EpBS		Ab		Trouw et al. (1998) [doi:10.1111/j.1525-1314.1998.00151.x]; Grunow et al. (1992) [doi:10.1130/0016-7606(1992)104<1497:SGAGOS>2.3.CO;2]
Antarctica	Smith Islands (56°S)	47-58	58	EpBS?		Ab		Trouw et al. (1998) [doi:10.1111/j.1525-1314.1998.00151.x]; Grunow et al. (1992) [doi:10.1130/0016-7606(1992)104<1497:SGAGOS>2.3.CO;2]
Antarctica	Alexander Island	Jurassic?	160	LwsBS		Ab		Godard & Plmeri (2013) [doi:10.1016/j.gr.2012.07.012]
Oceania								
New Zealand	Drumduan Group	<150	145	PA		Ab		Galvez et al. (2012) [doi:10.1007/s00410-012-0780-2]
New Zealand	Haast Schist	160-180	180	PA, EpBS		Ab		Kawachi et al. (1975) [doi:10.1080/00288306.1975.10421545]; Yardley (1982) [doi:10.1007/BF00371686]; Nishimura et al. (2000) [Am. Mineral.]
Australia (East)	Peel-Manning Fault (Port Macquarie etc)	470-480	480	LwsBS	LwsEC	Omp	✓	Och et al. (2003) [doi:10.1180/002646103674012]; Fukui et al. (1995) [doi:10.1029/94TC01317]
Australia (East)	Tia Complex	295-339	339	LwsBS?		Ab		Fukui et al. (2013) [doi:10.1016/j.jseas.2012.05.022]
Australia (East)	D'Aguilar Block	296-299	299	EpBS		Ab		Little et al. (1995) [doi:10.1130/0016-7606(1995)107<0520:AATOE>2.3.CO;2]
Australia (East)	Brisbane	224-280	280	EpBS?		Ab		Murray & Whitaker (1982) cited in Maruyama et al. (1996) []
Australia (East)	Governor-Heathcote	446-457	457	EpBS/GS		Ab		Phillips & Offler (2011) [doi:10.1016/j.gr.2010.07.009]; Spaggiari et al. (2002) [doi:10.1046/j.1440-0952.2002.00915.x]
Australia (East)	Tasmania	510	510	EpBS		Ab		Chmielewski & Berry (2012) [doi:10.1080/08120099.2012.724449]
New Caledonia	New Caledonia	21-42	42	LwsBS, (Lws)EpBS-EC	GlnEC, LwsEC	Ab, Omp, Pg	✓	Potel et al. (2006) [doi:10.1093/petrology/eg1001]; Fitzherbert et al. (2003) [doi:10.1093/petrology/egg060]; Clarke et al. (1997) [doi:10.1093/petrology/38.7.843]
Solomon	Santa Isabel	6-8	8	EpBS/GS		Ab		Ota & Kaneko (2011) [doi:10.1016/j.gr.2010.02.013]

Country	Blueschist locality (Complex/Unit)	Age (Ma)	Age (Ma) for histogram	Blueschist-type	Eclogite-type	Na-bearing phase	Presence of garnet	References
Papua New Guinea	Emo	14-35	35	LwsBS, EpBS		Ab	✓	Worthing (1988) [doi:10.1080/14400958808527937]; Worthing & Crawford (1996) [doi:10.1007/BF01165765] ; Baldwin et al. (2012) [doi:10.1146/annurev-earth-040809-152540]
Papua New Guinea	Alife	25-28	27	EpBS		Ab		Weil& & Cloos (1996) [doi:10.1130/0016-7606(1996)108<1438:PPAUT>2.3.CO;2]; Baldwin et al. (2012) [doi:10.1146/annurev-earth-040809-152540]
Western Pacific								
	Omachi Seamount, Izu-Mariana	Eocene?	48	EpBS-EC	GlnKyEC?	Omp	✓	Ueda et al. (2004) [doi:10.1130/G20837.1]
	Conical Seamount, Izu-Mariana	48	48	LwsBS, EpBS		Ab		Maekawa et al. (1993) [doi:10.1038/364520a0]; Maekawa et al. (1995) [doi:10.1029/GM088p0281]; Maekawa (2013) [Personal Comm]
Asia								
Indonesia	Rouffaer, Irian Jaya	35-20	30	LwsBS?		Ab		Baldwin et al. (2012) [doi:10.1146/annurev-earth-040809-152540]
Indonesia	Halmahere	Eocene?	45	EpBS		Ab		Hall et al. (1988) [doi:10.1144/gsjgs.145.1.0065]
Indonesia	Leti, Timor–Tanimbar	11	11	EpBS		Ab		Kaneko et al. (2007) [doi:10.1016/j.gr.2006.04.013]; Kadarusman et al. (2010) [doi:10.1016/j.gr.2010.02.009]
Indonesia	Lok Ulo, Java	117	117	EpBS	GlnEC	Omp	✓	Kadarusman et al. (2007) [doi:10.2747/0020-6814.49.4.329]; Parkinson et al. (1998) [doi:10.1046/j.1440-1738.1998.00184.x]
Indonesia	Pompangeo, Sulawesi	108-114	114	EpBS, LwsBS	GlnEC, LwsEC	Omp	✓	de Roever (1950) [Proc. Ned. Akad. v. Wet]; Parkinson et al. (1998) [doi:10.1046/j.1440-1738.1998.00171.x]
Indonesia	Peleru, Sulawesi	26-32	32	LwsBS, EpBS		Ab		Parkinson (1996) [doi:10.1111/j.1365-3121.1996.tb00564.x]
Indonesia	Bantimala, Sulawesi	111-137	137	EpBS	GlnEC	Omp	✓	Miyazaki et al. (1996) [doi:10.1046/j.1525-1314.1996.00381.x]; Wakita et al. (1996) [doi:10.1144/GSL.SP.1996.106.01.23]
Russia (East)	Alazeya	340	340	EpBS		Ab		Dobretsove & Sobolev (1984) [Ofioliti]
Russia (East)	Penzhina	350	350	LwsBS		Jd		Dobretsove & Sobolev (1984) [Ofioliti]
Russia (East)	Tigonos	220	220	EpBS/GS		Ab		Dobretsove & Sobolev (1984) [Ofioliti]
Russia (East)	Pekul'ney	180	180	EpBS?		Ab		Dobretsove & Sobolev (1984) [Ofioliti]
Russia (East)	Karaginsk	140-150	150	EpBS?		Ab		Dobretsove & Sobolev (1984) [Ofioliti]
Russia (East)	Susunai, Sakhalin	55-75	75	EpBS/PA		Ab		Sakakibara et al. (1997) [doi:10.1111/j.1525-1314.1997.tb00636.x]; Kimura et al. (1992) [doi:10.1111/j.1440-1738.1992.tb00067.x]
Russia (East)	Shaiginskiy, Primorye	230-250	250	EpBS/GS		Ab		Ishiwatari & Tsujimori (2003) [doi:10.1046/j.1440-1738.2003.00390.x]
Japan (Hokkaido)	Tokoro	70-80	80	LwsBS/PA, EpBS		Ab		Sakakibara (1991) [doi:10.1093/petrology/32.2.333]
Japan (Hokkaido)	Kamuikotan	57-110	110	LwsBS/PA		Ab		Sakakibara & Ota (1994) [doi:0.1029/94JB00958]
Japan (Hokkaido)	Kamuikotan	130-140	140	LwsBS, EpBS		Omp, Jd		Sakakibara & Ota (1994) [doi:0.1029/94JB00958]
Japan (NE Honshu)	Nedamo	380	380	EpBS		Ab		Uchino & Kawamura (2009) [doi:10.1111/j.1440-1738.2009.00691.x]
Japan (SW Honshu)	Shimanto	60-70	70	EpBS/GS		Ab		Aoki et al. (2011) [doi:10.1016/j.jseaes.2011.05.001]; Itaya et al. (2012) [doi:10.1016/j.jseaes.2008.10.012]
Japan (SW Honshu)	Sanbagawa	80-90	90	LwsBS/PA, EpBS-EC	GlnEC, LwsEC	Ab, Pg, Jd	✓	Itaya et al. (2012) [doi:10.1016/j.jseaes.2008.10.012]; Matsumoto et al. (2006) [doi:10.1046/j.1525-1314.2003.00449.x]; Tsuchiya & Hirajima (2013) [doi:10.2465/jmps121022b]
Japan (SW Honshu)	Sanbagawa	120	120	LwsBS/PA		Ab		Itaya et al. (2012) [doi:10.1016/j.jseaes.2008.10.012]; Suzuki & Ishizuka (1998) [10.1111/j.1525-1314.1998.00066.x]
Japan (SW Honshu)	Sanbagawa	120	120	EpBS-EC	Gln-KyEC	Omp, Pg	✓	Itaya et al. (2012) [doi:10.1016/j.jseaes.2008.10.012]; Ota et al. (2004) [doi:10.1016/j.lithos.2004.01.001]
Japan (SW Honshu)	Kurosegawa	208-240	240	LwsBS		Jd		Maruyama et al. (1978) [Journal of Japanese Association of Mineralogists, Petrologists & Economic Geologists]
Japan (SW Honshu)	Kurosegawa	300-385	385	EpBS		Ab		Ueda et al. (1980) [Journal of Japanese Association of Mineralogists, Petrologists & Economic Geologists]
Japan (SW Honshu)	Renge - Hida Mtn	283-389	389	EpBS-EC-EpBS, LwsBS	GlnEC	Ab, Pg, Omp	✓	Tsujimori (2002) [doi:10.2747/0020-6814.44.9.797]; Tsujimori (2010) [doi:10.5026/jgeography.119.294]
Japan (SW Honshu)	Renge - Chugoku Mtn	264-354	350	EC-EpBS, LwsBS	GlnEC	Ab, Omp	✓	Nishimura (1998) [doi:10.1111/j.1525-1314.1998.00059.x]; Tsujimori & Itaya (1999) [doi:10.1046/j.1440-1738.1999.00231.x]; Tsujimori & Liou (2005) [doi:10.2747/0020-6814.47.3.215]
Japan (SW Honshu)	Suo	156-226	226	PA/EpBS		Ab		Nishimura (1998) [doi:10.1111/j.1525-1314.1998.00059.x]
Japan (SW Honshu)	Chizu	154-195	195	LwsBS/PA		Ab		Nishimura (1998) [doi:10.1111/j.1525-1314.1998.00059.x]
Japan (Kyushu)	Nagasaki	70-91	91	EpBS/GS		Ab, Omp, Jd		Nishimura (1998) [doi:10.1111/j.1525-1314.1998.00059.x]
Japan (Kyushu)	Nagasaki	152-250	250	PA/EpBS		Ab		Nishimura (1998) [doi:10.1111/j.1525-1314.1998.00059.x]
Japan (Yaeyama)	Ishigaki	188-219	219	LwsBS, EpBS		Ab		Nuonget al. (2008) [doi:10.1017/S0016756808004998]
Taiwan	Yuli	8-14	14	EpBS/EA		Ab, Pg	✓	Tsai et al. (2013) [doi:10.1016/j.jseaes.2012.09.019]; Jahn et al. (1986) [10.1016/0040-1951(86)90009-0]
Philippines	Panay	12-16	16	EpBS/GS		Ab		Tamayo Jr et al. (2001) [doi:10.1111/j.1751-3928.2001.tb00088.x]; Yumul Jr et al. (2013) [doi:10.1016/j.jseaes.2012.08.017]

Country	Blueschist locality (Complex/Unit)	Age (Ma)	Age (Ma) for histogram	Blueschist-type	Eclogite-type	Na-bearing phase	Presence of garnet	References
Philippines	Mindoro	>170	180	LwsBS/PA		Ab		Sato & Seki (1972) [Proceedings of Japan Academy B]
China (East)	Akusu	698-754	754	EpBS/GS		Ab		Liou et al. (1996) [doi:10.1080/00206819709465332]
China (East)	North Qilian	442-490	490	LwsBS, EpBS	LwsEC	Omp	✓	Xiao et al. (2013) [doi:10.1016/j.lithos.2012.11.012]; Song et al. (2009) [doi:10.1016/j.jseae.2008.11.005]; Lin et al. (2010) [doi:10.1007/s11434-010-3239-8]; Zhang et al. (2009) [doi:10.1016/j.jseae.2008.11.007]; Zhang et al. (2007) [doi:10.1111/j.1525-1314.2006.00689.x]
China (East)	West Tianshan	310-320	320	LwsBS-EC	GlnEC, (Lws)EC+	Omp, Pg	✓	Lü et al. (2012) [doi:10.1111/j.1525-1314.2012.01002.x]; Du et al. (2011) [doi:10.1016/j.jseae.2011.04.003]; Lue et al. (2009) [doi:10.1111/j.1525-1314.2009.00845.x]; Tian & Wei (2013) [doi:10.1111/jmg.12021]; Wei et al. (2009) [doi:10.1093/petrology/egp064]; Su et al. (2010) [doi:10.1127/0935-1221/2010/0022-2040]
Kirgistan	Atbashi	324-327	320	LEC-EpBS	LwEC+	Omp	✓	Shatskii & Usova (1989) [Russian Geology & Geophysics]
Tajikstan	Fan-Karategin	Carboniferous	320	EpBS				Volkava & Busanov (1999) [doi:10.1016/S0024-4937(99)00019-5]
Russia (North)	Big Lyakhov Island	>100	105	EpBS		Ab		Kuzmichev et al. (2005) [Russian Geology & Geophysics]; Kuzmichev et al. (2009) [doi:10.1134/S0016702909020062]
Russia (Ural Mtn)	Marun-Keu (67°N)	339-366	366	(Lws)EpBS-EC	Gln-KyEC	Omp, Pg	✓	Puchkov (2009) [doi:10.1016/j.tecto.2009.01.014]; Glodny et al. (2003) [10.1016/S0016-7037(03)00370-3];
Russia (Ural Mtn)	Voikar-Syninsky (66° N)	350	350	EpBS		Ab		Remizov (2003) [Polarforschung]; Estrada et al. (2006) [doi:10.1127/1860-1804/2012/0163-0009]; Remizov & Pease (2004) [doi:10.1144/GSL.MEM.2004.030.01.10]
Russia (Ural Mtn)	Nerka-Yu - Parus-Shor (65°N)	351-352	352	EpBS-EC	GlnEC	Omp	✓	Puchkov (2009) [doi:10.1016/j.tecto.2009.01.014]
Russia (Ural Mtn)	Manya-Schekurya (64°N)	350-380?	380	(Lws)EpBS-EC	GlnEC	Omp, Pg	✓	Gomez-Pugnaire et al. (1997) [doi:10.1016/S0040-1951(97)00055-3]
Russia (Ural Mtn)	Slatim (61°N)	367-370	370	EpBS		Ab		Puchkov (2009) [doi:10.1016/j.tecto.2009.01.014]
Russia (Ural Mtn)	Kvarkush (60°N)	350-380?	380	EpBS		Ab		Puchkov (2009) [doi:10.1016/j.tecto.2009.01.014]
Russia (Ural Mtn)	Maksyutov (52°N)	372-390	390	EC-(Lws)EpBS	GlnEC	Omp	✓	Volkova & Sklyarov (2007) [doi:10.1016/j.rgg.2006.12.008]; Beane & Connelly (2000) [doi:10.1144/jgs.157.4.811]; Leech & Willingshofer (2004) [doi:10.1016/j.epsl.2004.07.009]; Beane et al. (1995) [doi:10.1111/j.1440-1738.1995.tb00148.x]
Russia (Ural Mtn)	Kvarkush	535-536	536	EpBS		Ab		Beckholmen & Glodny (2004) [doi:10.1144/GSL.MEM.2004.030.01.11]
Russia (Central Asia)	Uimon, CAO B	485-490	490	EpBS		Ab		Volkova et al. (2011) [doi:10.1016/j.rgg.2010.12.006]; Volkova & Sklyarov (2007) [doi:10.1016/j.rgg.2006.12.008]; Volkova et al. (2005) [doi:]
Russia (Central Asia)	Kurtushiba, CAO B	465-470	470	EpBS		Ab		Volkova et al. (2011) [doi:10.1016/j.rgg.2010.12.006]; Volkova & Sklyarov (2007) [doi:10.1016/j.rgg.2006.12.008]
Kazakhstan	Chara, CAO B	449-450	450	EpBS		Ab		Volkova et al. (2011) [doi:10.1016/j.rgg.2010.12.006]; Volkova & Sklyarov (2007) [doi:10.1016/j.rgg.2006.12.008]
Kazakhstan	Itmurunda, CAO B	450?	450	EpBS?		Ab		Kovalenko et al. (1994) [ISBN-13:978-9067641760]
Russia (Central Asia)	Chagan-Uzun, CAO B	540-576	576	EpBS		Ab		Buslov et al. (2001) [doi:10.1007/BF02910304]
Russia (Central Asia)	Borus (W. Sayan), CAO B	520-540	540	EpBS	GlnEC	Omp	✓	Volkova et al. (2011) [doi:10.1016/j.rgg.2010.12.006]; Volkova & Sklyarov (2007) [doi:10.1016/j.rgg.2006.12.008]; Sobolev et al. (1986) [ISBN-13:978-0813711645]
Russia (Central Asia)	Oka (E. Sayan), CAO B	600?	600	EpBS		Ab		Kuzmichev et al. (2007) [doi:10.1111/j.1440-1738.2007.00568.x]; Zhmodik et al. (2006) [RGG]
China (North)	Ondor Sum, CAO B	449-453	453	LwsBS		Ab		de Jong et al. (2006) [doi:10.2475/10.2006.02]
China (North)	Solonker, CAO B	426-446	448	EpBS?				Chen et al. (2009) [doi:10.1016/j.jseae.2008.05.007]
China (North)	Tangbale, CAO B	458-470	470	EpBS		Ab		Zhnag et al. (1997) [doi:10.1007/BF02882787]
Mongolia	Tsakhir Uul, CAO B	543	543	EpBS-EC	GlnEC	Omp	✓	Stipska et al. (2010) [doi:10.1111/j.1525-1314.2010.00899.x]
China (East)	Sulu	203-230	230	(Lws)EpBS-EC	(Lws)KyEC+	Jd	✓	Liou et al. (2009) [doi:10.1016/j.jseae.2008.10.012]; Zhang et al. (2009) [doi:10.1016/j.gr.2009.03.008]
China (East)	Feidong-Zhangbaling	221-245	245	EpBS		Jd		Lin et al. (2005) [doi:10.1016/j.jseae.2004.01.014]
China (East)	Tongbai-Dabie	220-240	240	(Lws)EpBS-EC	(Lws)KyEC+	Omp	✓	Liou et al. (2009) [doi:10.1016/j.jseae.2008.10.012]; Zhou et al. (1993) [doi:10.1111/j.1525-1314.1993.tb00172.x]; Wei et al. (2010) [doi:10.1111/j.1525-1314.2010.00884.x]
China (East)	Qinling	220-240	240	(Lws)EpBS-EC	Gln-KyEC+	Omp	✓	Liou et al. (2009) [doi:10.1016/j.jseae.2008.10.012]; Li et al. (2007) [doi:10.1016/j.gr.2006.11.011]
China (East)	Heilongjiang	166-184	284	EpBS		Ab		Zhou et al. (2009) [doi:10.1016/j.tecto.2009.08.009]; Wu et al. (1007) [doi:10.1111/j.1440-1738.2007.00564.x]
China (West)	Qiangtang, Northern Tibet	200-240	240	EpBS-EC	GlnEC+	Omp	✓	Zhai et al. (2011) [doi:10.1016/j.jseae.2011.07.023]; Kapp et al. (2000) [doi:10.1130/0091-7613(2000)28<19:BMCCIT>2.0.CO;2]
China (West)	NW Qiangtang, Northern Tibet	207-242	242	LwsBS		Ab		Tang and Zhang (2013) [doi:10.1080/00206814.2013.820866]
China (West)	Lancang, Yunnan	274-294	294	EpBS		Ab		Heppe et al. (2009) [doi:10.1016/j.jseae.2007.04.002]; Zhnag et al. (1993) [doi:10.1111/j.1525-1314.1993.tb00175.x]
India	Sapi-Shergol, Ladakh	65	65	LwsBS			✓	Mahéoa et al. (2006) [doi:10.1016/j.jseae.2005.01.004]
India	Tso Morari, Ladakh	45-55	55	EpBS	GlnEC+	Jd	✓	de Sigoyer et al. (2000) [doi:10.1130/0091-7613(2000)28<487:DTICSA>2.0.CO;2]
Pakistan	Kaghan Valley	43	43	EpBS-EC	Gln-KyEC+	Omp	✓	Lombardo et al. (2000) [doi:10.1144/GSL.SP.2000.170.01.22]
Pakistan	Shangla	80-84	84	EpBS		Ab		Anczkiewicz et al. (2000) [doi:10.1016/S0040-1951(00)00110-4]

Country	Blueschist locality (Complex/Unit)	Age (Ma)	Age (Ma) for histogram	Blueschist-type	Eclogite-type	Na-bearing phase	Presence of garnet	References
Myammer	Naga Hills	80?	80	EpBS-EC	GlnEC	Omp	✓	Chatterjee & Ghose (2010) [doi:10.1111/j.1525-1314.2009.00861.x]
Myammer	Jade Mines	152	152	EpBS		Ab		Shi et al. (2013) [doi:10.1016/j.gr.2013.08.007]
Iran	Anarak	285	285	EpBS		Ab		Torabi (2011) [ReviTsitaraMbiexicana de Ciencias Geológicas]
Iran	Asalam-Shanderman	303-315	315	EpBS	GlnEC	Omp, Pg		Zanchetta et al. (2009) [doi:10.1144/SP312.4]; Omrai et al. (2013) [doi:10.1111/jmg.12045]
Iran	Sistan	125	125	(Lws)EpBS-EC	GlnEC	Omp, Pg	✓	Angiboust et al. (2013) [doi:0.1016/j.lithos.2012.11.007]; Fotoohi Rad et al. (2009) [doi:10.1002/gj.1135]; Fotoohi Rad et al. (2006) [doi:10.1016/j.lithos.2005.01.007]
Iran	Sabzebar	50-55	55	EpBS		Ab, Omp		Omrari et al. (2013) [doi:10.1007/s00531-013-0881-9]
Iran	Zagros	85-95	95	LwsBS		Omp		Agard et al. (2006) [doi:10.1029/2005JB004103]
Armenia	Amassia– Stepanavan	91-95	95	EpBS		Ab		Roll& et al. (2009) [doi:10.1007/s00531-007-0286-8]
Oman	Semail	72-80	80	EpBS	GlnEC, (Lws)EC	Omp, Jd, Pg	✓	El-Shazly et al. (1990) [doi:10.1093/petrology/31.3.629]; Warren & Waters (2006) [doi:10.1111/j.1525-1314.2006.00668.x]; Goffé et al. (1988) [doi:10.1016/0040-1951(88)90253-3]; Searle et al. (2004) [doi:10.1144/gsjgs.151.3.0555]; El-SHazly (1994) [doi:10.1111/j.1525-1314.1994.tb00002.x]
Europe								
Turkey	Southern Thrace	85-87	87	LwsBS		Omp, Jd		Topuz et al. (2008) [doi:10.1111/j.1525-1314.2008.00792.x]
Turkey	Muttalip, Sakarya	205-215	210	EpBS		Ab		Okay et al. (2002) [doi:10.1016/S0024-4937(02)00200-1]
Turkey	Dagküplü, Sakarya	80?	80	LwsBS		Ab		Okay (1982) [doi:10.1007/BF01132065]; Okay et al. (2002) [doi:10.1016/S0024-4937(02)00200-1]
Turkey	Sivrihisar, Tavsanli	80-88	88	LwsBS	LwEC	Omp, Jd		Davis et al. (2011) [doi:10.1029/2010TC002713]; Whitney et al. (2011) [doi:10.1111/j.1525-1314.2010.00915.x]; Davis & Whitney (2008) [doi:10.1007/s00410-008-0282-4]; Çetinkaplıana et al. (2008) [doi:10.1016/j.lithos.2007.11.007]; Okay (2002) [doi:10.1046/j.1525-1314.2002.00402.x]
Turkey	Central Pontides	95-117	105	LwsBS	LwEC, GlnEC	Omp, Jd, Pg		Altherr et al. (2004) [10.1007/s00410-004-0611-1]; Okay et al. (2006) [doi:10.1130/B25938.1]
Turkey	Afyon	60-64	64	LwsBS		Ab		Candan et al. (2005) [doi:10.1016/j.lithos.2005.02.005]; Pourteau et al. (2010) [doi:10.1029/2009TC002650]
Slovakia	Meliata Unit	152-150	150	EpBS		Ab		Faryad & Frank (2011) [doi:10.1016/j.jseas.2011.03.016]; Putis et al. (2012) [doi:10.3190/jgeosci.128]
Greece	Cyclades	42–40	40	(Lws)EpBS-EC- EpBS	GlnEC	Omp, Jd, Pg	✓	Ring et al. (2010) [doi:10.1146/annurev.earth.050708.170910]; Ring et al. (2004) [doi:10.1144/0016-76492006-041]; Miller et al. (2009) [doi:10.1016/j.lithos.2008.07.015]; Groppo et al. (2008) [doi:10.1016/j.lithos.2008.10.005]
Greece	Cyclades	80	80	(Lws)EpBS-EC- EpBS	GlnEC	Omp	✓	Bulle et al. (2010) [doi:10.1016/j.lithos.2010.02.004]
Greece	Eastern Rhodope	49-55	55	(Lws)EpBS-EC	Gln-KyEC	Omp, Pg	✓	Mposkos et al. (2012) [doi:10.1007/s00531-011-0699-2]
Serbia	Fruška Gora Range	120-150?	150	EpBS		Ab		Korikovskiy & Karamata (2011) [doi:10.1134/S0869591111010048]
Poland	Kaczawa Mtn (West Sudetes)	350?	350	EpBS		Ab, Jd	✓	Smulikowski (1994) [doi:10.1007/BF00240563]; Kryza et al. (2011) [doi:10.1180/minmag.2011.075.1.241]
Poland	Rychory Mtn (West Sudetes)	346-364	364	EpBS		Ab		Maluski & Patocka (1997) [doi:10.1017/S0016756897007498]
Czech	West Sudetes	350?	350	(Lws)EpBS		Ab		Mazur & Aleks&rowski (2001) [doi:10.1007/s005310000146]
Czech	Bohemian Massif	336-355	355	EpBS		Ab		Faryad & Kachlik (2013) [doi:10.1111/jmg.12009]
Germany	Frankenberg Massif	381	381	EpBS		Ab		Rötzler et al. (1999) [doi:10.1046/j.1525-1314.1999.00183.x]
Austria	Haselgebirge	349-378	378	EpBS		Ab		Schorn et al. (2013) [doi:10.1016/j.tecto.2012.10.016]
France	Armorican Massif	345-364	364	(Lws)EpBS-EC	Gln-EC, (Lws)EC	Omp, Pg	✓	Bosse et al. (2005) [doi:10.1016/j.chemgeo.2005.02.019]; Balleuvre et al. (2003) [doi:10.1046/j.1525-1314.2003.00474.x]; Schulz,et al. (2001) [doi:10.1007/s005310000156]
Spain	Iberian Massif	352-365	365	(Lws)EpBS-EC	Gln-KyEC	Ab, Pg	✓	Lopez-Carmona et al. (2013) [doi:10.1111/jmg.12018]; Gil Ibarguchi & Ortega Gironésb (1985) [doi:10.1016/0009-2541(85)90117-2]; Zalduogui et al. (1994) [doi:10.1016/0009-2541(94)00123-P]; Rubio-Pascual et al. (2013) [doi:10.1016/j.tecto.2013.02.022]
Portugal	Morais	329	329	EpBS		Jd, Pg		Gil Ibarguchi & Dallmeyer (1991) [doi:10.1111/j.1525-1314.1991.tb00547.x]
Spitsbergen	Spitsbergen	450-475	475	(Lws)EpBS-EC	LwsEC	Omp, Jd, Pg	✓	Hirajima et al. (1988) [doi:10.1016/0024-4937(88)90018-7]; Agard et al. (2005) [doi:10.1130/G21693.1]
Norway	Verpeneset, WGR	403	403		(Lws)KyEC+		✓	Krogh (1982) [doi:10.1016/0024-4937(82)90021-4]; Carswell et al. (2003) [NGU-rapport]; Root et al. (2004) [doi:10.1016/j.epsl.2004.10.019]
Norway	Sunnfjord, WGR	408-425	425	(Lws)EpBS-EC	(Lws)KyEC	Omp		Krogh (1980) [doi:10.1016/0024-4937(80)90054-7]; Cuthbert et al. (1990) [doi:10.1016/S0024-4937(99)00090-0]; Johnston et al. (2007) [doi:10.1130/B26172.1]
Norway	Byafjæra	480-490	490	EpBS		Ab		Eide & Lardeaux (2002) [doi:10.1016/S0024-4937(01)00074-3]
UK	Bllantrae	<470	465	EpBS/GS		Ab		Sawaki et al. (2010) [doi:10.1130/B26329.1]; Kawai et al. (2008) [doi:10.1016/j.lithos.2008.01.005]
UK	Abglesey	550-560	560	EpBS/GS, LwsBS		Ab		Gibbons & Mann (1983) [10.1130/0091-7613(1983)11<3:PIIANW>2.0.CO;2]; Kawai et al. (2006) [doi:0.1111/j.1525-1314.2006.00656.x]
UK	Western Ireland	421-463	463	EpBS/GS		Ab		Chew et al. (2003) [doi:10.1144/0016-764903-012]
Switzerland	Engadine window, E. Alps	80?	80	LwsBS/GS		Ab		Goffe & Oberhaensli (1992) [European Journal of Mineralogy]; Waibe & Frisch (1989) [doi:10.1016/0040-1951(89)90246-1]

Country	Blueschist locality (Complex/Unit)	Age (Ma)	Age (Ma) for histogram	Blueschist-type	Eclogite-type	Na-bearing phase	Presence of garnet	References
Switzerland	Middle Addula, Central Alps	32-33	33	(Lws)EpBS-EC	Gln-KyEC	Omp, Pg	✓	Liatì et al. (2009) [doi:10.1144/0016-76492008-033]
Switzerland	Zermatt-Saas, W. Alps	38-41	41	(Lws)EpBS-EC	(Lws)Gln-KyEC+	Omp, Pg	✓	Oberhänsli (1982) [Ofioliti]; Barnicoat & Fry (1986) [doi:10.1144/gsjgs.143.4.0607]; Amato et al. (1999) [doi:]
Italy	Schists Lustrés, W. Alps	51-62	62	LwsBS/GS		Ab		Schwartz et al. (2009) [doi:10.1130/B26223.1]; Dela & Holl& (2003) [doi:10.1046/j.1525-1314.2003.00483.x]; Meyre et al. (1998) [doi:10.1093/ptroj/40.1.199]
Italy	Ligurian Alps, W. Alps	40-43	43	(Lws)EpBS-EC	GlnEC	Omp, Jd	✓	Federico et al. (2007) [doi:10.1130/G23190A.1]; Federico et al. (2009) [doi:10.3301/IJG.2009.128.2.455]
Italy	Tuscany, W. Alps	20-26	26	LwsBS		Ab		Brunet et al. (2000) [doi:10.1016/S0040-1951(00)00067-6]
Italy	Zermatt–Saas, W. Alps	45	45	(Lws)EpBS-EC	GlnEC+	Omp, Pg	✓	Angiboust & Agard (2010) [doi:10.1016/j.lithos.2010.09.007]; Bucher et al. (2005) [doi:10.2138/am.2005.1718]
Italy	Monviso, W. Alps	45	45	LwsBS-EC	LwsEC	Omp, Pg	✓	Angiboust et al. (2012) [doi:10.1111/j.1525-1314.2011.00951.x]; Groppo & Daniele (2010) [doi:10.1093/petrology/egq065]; Rubatto & Hermann (2003) [doi:10.1016/S0016-7037(02)01321-2]; Pognante (1989) [doi:]
Italy	Gimigliano-Monte Reventino	33-38	35	LwsBS		Ab		Rossetti et al. (2002) Italian Journal of Geosciences]
France	Corsica	34	34	LwsBS	LwsEC	Omp, Pg	✓	Martin et al. (2011) [doi:10.1016/j.lithos.2011.03.015]; Brovarone et al. (2011) [doi:10.1111/j.1525-1314.2011.00931.x]; Ravna et al. (2010) [doi:10.1111/j.1525-1314.2010.00870.x]; Caron & Péquignot (1986) [doi:10.1016/0024-4937(86)90023-X]
France	Piémont zone, W. Alps	45-50	45	LwBS		Jd		Mevel & Kienast (1980) [doi:10.1180/minmag.1980.043.332.04]
France	Vanoise Massfi, W. Alps	43-50	45	LwBS		Jd		Strzeczynski et al. (2012) [doi:10.1016/j.jog.2011.11.010]; Goffé & Velde (1984) [doi:10.1016/0012-821X(84)90166-3]
Austria	Tauern Window, E. Alps	31-34	34	(Lws)EpBS-EC	(Lws)EC, Gln- KyEC	Omp, Pg	✓	Warren et al. (2012) [doi:10.1111/j.1525-1314.2011.00956.x]; Smye et al. (2011) [doi:10.1016/j.epsl.2011.03.037]; Gleissner et al. (2007) [doi:10.1127/0935-1221/2007/0019-1755]; Holl& & Ray (1985) [doi:10.1111/j.1525-1314.1985.tb00328.x]; Holl& (1988) [doi:10.1007/BF00399373]
Austria	Rechnitz Window, E. Alps	57	57	LwsBS		Ab, Omp		Hoinkes et al. (1999) [Schweizerische Mineralogische und Petrographische Mitteilunge]
Spain	Betic Cordillera	86-87	87	(Lws)EpBS-EC	GlnEC	Omp, Pg	✓	Gómez-Pugnaire & Fernández-Soler (1987) [doi: G10.1007/BF00381273]; Puga et al. (2000) [doi:10.2113/gscanmin.38.5.1137]; de Joog (2003) [doi:10.1016/S0024-4937(03)00094-X]
Africa								
Morocco	Anti-Atlas Mtn	>579	584	EpBS		Ab		Bousquet et al. (2008) [doi:10.1144/SP297.11]; Hfferan et al. (2002) [doi:10.1016/S0301-9268(02)00109-2]
Namibia	Gariep	>520	525	EpBS		Ab		Frimmel & Hartnady (1992) [doi:10.1111/j.1525-1314.1992.tb00113.x]
Mali	Gourma	620	620	EpBS-EC	GlnEC	Omp, Pg	✓	Caby et al. (2008) [doi:10.1144/SP297.9]

Inferred metamorphic facies, common occurrence of Na-bearing phases, presence of almandine-rich garnet (✓), and type of eclogite are also shown. Blueschist-type: LwsBS—lawsonite blueschist-facies, LwsEC—lawsonite eclogite-facies, EpBS—epidote blueschist-facies, PA—pumpellyite–actinolite-facies, GS—green schist facies, EA—epidote amphibolite-facies. “/” means transitional facies. EC-LwsBS and EpBS-EC represent metamorphic evolution eclogite-to-lawsonite blueschist and epidote blueschist-to-eclogite, respectively. Eclogite-type: LwsEC—lawsonite eclogite, GlnEC—glaucophane-bearing epidote eclogite, KyEC—kyanite eclogite. “+” represents UHP condition (e.g., KyEC+). (Lws)—pseudomorph after lawsonite. LwsBS—lawsonite blueschist-facies, LwsEC—lawsonite eclogite-facies, EpBS—epidote blueschist-facies, PA—pumpellyite–actinolite-facies, GS—green schist facies, EA—epidote amphibolite-facies. “/” means transitional facies. EC-LwsBS and EpBS-EC represent metamorphic evolution eclogite-to-lawsonite blueschist and epidote blueschist-to-eclogite, respectively. Eclogite-type: LwsEC—lawsonite eclogite, GlnEC—glaucophane-bearing epidote eclogite, KyEC—kyanite eclogite. “+” represents UHP condition (e.g., KyEC+). (Lws)—pseudomorph after lawsonite.