

Table 1: Selected isotope age data relevant to the early tectonic history of the units. Units involved in the subduction processes, but without evidence of HP/LT metamorphism are shown in grey. The area-code will be found in Figures 2, 3 and 5. These data are presented graphically in Figure 1.

Locality	rock type	method	age	Err.	interpretation	Reference <i>Berger & Bousquet, 2008</i>	Area code
Reckner Complex	Metasediments	Ar-Ar Phg	52-51		Blueschist	Dingeldey et al. 1997	0
Aus Err-nappe	Metaradiolarite	K/Ar Phg	89-76		PT max	Handy et al. 1996	
troa Sesia	Eclogite	Zrn SH.	65	3	HP	Rubatto et al. 1999	1
lpin	HP-Vein with Qtz, Jd-Ab-Ep	Zrn SH.	70	5	HP	Rubatto et al. 1999	
e	Eclogite	Lu/Hf	69	3	HP	Dûchene et al. 1997	
	Metagranitoid	Rb/Sr	71	2	HP	Oberhänsli et al. 1985	
	Calcschistes	Ar/Ar	65	2	HP	Venturini 1995	
	Metagabbros	Ar/Ar	74	0.2	HP	Venturini 1995	
	Marble	Rb/Sr	71	0.8	HP	Dal Piaz et al. 2001	
Dt. Blanche (Pillonet Klippe)	Metagranitoid	Ar/Ar	75-73	0.7	HP	Cortiana et al. 1998	2
	Micaschistes	Rb/Sr	75	0.8	HP	Cortiana et al. 1998	
	Micaschistes	Rb/Sr	60.4	1.2	PT max	Reddy et al. 2003	
Mt. Emilius	Eclogite	Rb/Sr	45	0.4	HP	Dal Piaz et al. 2001	3
	Gneiss	Rb/Sr	49-42	0.5	HP	Dal Piaz et al. 2001	
Pie Malenco	Metagabbro	Ar/Ar Amph	83-71		P max	Villa et al. 2000	4
mo	Metagabbro	Ar/Ar Amph	73-67		T max	Villa et al. 2000	
nt- Platta	Basic dyke	K/Ar Rbk	84.3	1.3		Deutsch 1984	5
Lig	Basic dyke	K/Ar Rbk	80.5	1.3		Deutsch 1984	
uria	Basic dyke	K/Ar Rbk	68.7	1.2		Deutsch 1984	
I	Basic dyke	K/Ar Rbk	90.2	1.9		Deutsch 1984	
	Metaradiolarite	Ar/Ar Amph	80-67		PT max	Handy et al. 1996	
Balagne	Metabasalt	Ar/Ar Gln	90			Maluski 1977	6
Pie Rechnitz window	Metabasalt	Ar/Ar Amph	57	3	Pmax: Blueschists	Ratschbacher et al. 2004	7
mo Zermatt (Täsch)	Metagabbro	Zrn SH.	49	3	HP	Rubatto et al. 1998	8
nt-	Metapelites	Rb/Sr	38	0.1	500°C isotherm	Amato et al. 2001	
Lig Zermatt (Lago di Cignana)	Eclogite	Zrn SH.	44.5	2.3	HP	Rubatto et al. 1998	9
uria	Metapelites	Zrn SH.	43.9	0.9	HP	Rubatto et al. 1998	
II	Eclogite (without Cs)	Lu/Hf	48.8	2.1	transition BS-EC	Lapen et al. 2003	
	Eclogite	Sm/Nd	40.6	2.6	final garnet growth	Amato et al. 2001	
	Metapelites	Rb/Sr	37.9	0.09	500°C isotherm	Amato et al. 2001	
Grivola (Urtier)	Eclogite	Rb/Sr	42-45		HP	Dal Piaz et al. 2001	10
Grivola	Vein in Eclogite	Ar/Ar Phg	46-44		Blueschist post eclogites	Bucher 2003	
	Eclogites	Ar/Ar Phg	45.8	6.8	First part of the exhumation	Reddy et al. 2003	
Schistes Lustrés (Entrelor)	Metapelite	Ar/Ar	46-44		HP	Bucher 2003	11
Schistes Lustrés N' Cottian Alps	Metapelite	Ar/Ar Phg	51-45		HP?	Agard et al. 2002	12
Monviso	Metapelite	Ar/Ar Phg	62-55		HP	Agard et al. 2002	
	Eclogite	Lu/Hf	49.1	1.2	garnet growth	Dûchene et al. 1997	13
	Eclogite	Zrn SH.	45	1	eclogite stage	Rubatto & Hermann 2003	
	myl. Eclogite	Rb/Sr	41.6	0.4	?	Cliff et al 1998	
	myl. Eclogite	Sm/Nd	60	12	?	Cliff et al 1998	
Voltri	Eclogite	Ar/Ar Phg	49	0.4	HP	Federico et al. 2006	14
	Blueschist	Ar/Ar Phg	40	0.37	HP	Federico et al. 2006	
	Calcschist	Ar/Ar Phg	47.6	0.37	HP	Federico et al. 2006	
	Micaschist	Ar/Ar Pg	44.3	1.9		Federico et al. 2006	
Tenda massif (Cap-Corse-Corsica)	Metapelite	Ar/Ar	45-38			Brunet et al. 2000	15

Briançonnais	Tambo Suretta	Metagranite	Ar/Ar Phg	46	10	Pmax	Challendes et al. 2003	16
	Monte Rosa (Furgg zone)	Qz-Cc-Phg-Rt Vein in eclogite	U/Pb Rt	42	0.6	HP	Lapen et al. 2007	17
	Ruitor-Cogne	Quartzite	Ar/Ar Phg	47-43			Bucher 2003	18
	Gran Paradiso	Micaschist	Rb/Sr	43	0.5	Phengite-apatite equilibr.	Meffan-Main et al. 2004	19
	Dora Maira	Felsic-Eclogite	Lu/Hf	32.8	1.2	garnet growth	Dûchene et al. 1997	20
		Felsic-Eclogite	μ -PIXE Mz	60	10	prograde	Vagelli et al. 2006	
Felsic-Eclogite		μ -PIXE Mz	37	7		Vagelli et al. 2006		
Gneiss		U-Pb	39-35			Tilton et al. 1991		
	Calc-silicate	Zrn SH.	35.1	0.9		Rubatto & Hermann 2001		
Tauern (Eclogite Zone) (Valaisais n?)	Upper Schieferhülle	Eclogite	Ar/Ar Phg	40.9	0.13	HP	Ratschbacher et al. 2004	21
		Grt-micaschist	Ar/Ar Phg	40.1	0.22	HP	Ratschbacher et al. 2004	
		Ferrodiorite	Ar/Ar Amph	57	3	HP	Ratschbacher et al. 2004	
		Eclogite	Ar/Ar Phg	34.2	1.2	HP	Zimmermann et al. 1994	
		Micaschist	Ar/Ar Phg	36.0	1.2	Blueschist conditions	Zimmermann et al. 1994	22
	Micaschist	Rb-Sr	35.4-30		Garnet growth	Christensen et al. 1994		
Valaisais n)	Antrona (Mattone)	Overprin. eclogite	Zrn SH.	38.5	0.7		Liati et al. 2005	23
	Balma	Overprin. eclogite	Zrn SH.	40.4	0.7		Liati & Froitzheim 2006	24
	Petit St Bernard	Metapelites	Ar/Ar	37-35		HP	Cannic et al. 1999	25
		Metapelites	Rb/Sr	31-27		HP?	Freemann et al. 1998	
Europan	Lower Schieferhülle	Quartzite	Ar/Ar Phg	34.9	1.4	Blueschist conditions	Zimmermann et al. 1994	26
	Gruf	Restitic granulite	Zrn SH.	32.7	0.5	T max at 1.2 GPa	Liati & Gebauer 2003	
Assiemediate the margin (Central)	Alpe Arami	Eclogite	Zrn SH.	35.8	2.8		Gebauer 1996	27
		Peridotite	Zrn SH.	43	2		Gebauer 1996	
		Peridotite	Zrn SH.	35.4	0.5		Gebauer 1996	
	Alpe Repiano	Eclogite	Sm/Nd	37.5	2.2	cooling + decomp.	Becker 1993	
		Eclogite	Lu/Hf	36.6	8.9	cooling + decomp.	Brouwer et al. 2005	
		Eclogite	Lu/Hf	63	12	transition blueschist-eclogite	Brouwer et al. 2005	28
	M. Motti	Eclogite	Lu/Hf	47.5	3.4	somewhen during retrogression	Brouwer et al. 2005	
		Overprinted eclogite	Lu/Hf	35.8	1.6	retrogression at ~2 GPa	Brouwer et al. 2005	29
Gorduno	Overprinted eclogite	Lu/Hf	38.1	2.9	cooling + decomp.	Brouwer et al. 2005	29	
Cima di Gagnone	Grt-Lerzolith	Sm/Nd	40.2	4.2	?	Becker 1993		
Mt. Duria	Peridotite	Zrn SH.	34.2	0.24	retrogression at ~2 GPa	Hermann et al. 2006	29	

Abbreviations: Zrn SH = Zircon SHRIMP data, Amph = Amphibole, Rbk: Riebekite, Phg = Phengite, Pg= Paragonite, Rt = Rutile, Gln = Glaucophane, μ PIXE Mz = chemical ages of monazite with PIXE, Lu/Hf and Sm/Nd are isochron data using garnet. HP = HP/LT metamorphism; BS =Blueschist facies, EC = Eclogite facies