

Table S2 Whole rock Geochemistry of Donoussa Amphibolites and Metapelites

Major Element (Wt%)	Amphibolites					Metapelites					
	Ca Amphibolites		Fe-Mg amphibolites			Gt-sill-bi bearing		Sill-Bi bearing		And-Sill-bi bearing	
	KD 149	KD142	KD267	KD55	KD147	KD156	KD284A	KD284B	KD132	KD273	KD279
SiO ₂	51.5	53	51.5	49.9	48.5	61.3	66.5	66.2	67.5	75.4	61.6
Al ₂ O ₃	18.1	18	10.4	19.9	19.7	19.6	15.9	15.9	17.1	14	21
Fe ₂ O ₃	12.6	10	8.6	13.3	13.2	6.8	5.9	5.5	5.5	3.3	6.7
TiO ₂	1.1	0.6	0.9	1.2	1.1	0.9	0.8	0.9	0.8	0.8	0.9
CaO	11	9	10.7	6.5	3.6	0.8	1.6	2.3	0.8	0.8	0.5
MgO	2.1	3.5	13.3	5.2	6.7	2.5	2.1	2.2	2.1	1.2	2.5
MnO	0.34	0.1	0.1	0.12	0.17	0.04	0.07	0.07	0.05	0.06	0.05
Na ₂ O	1.8	3.4	1.4	2.8	3.1	1.4	2.4	2.9	1.2	0.5	0.6
K ₂ O	0.5	1	0.4	0.4	1.7	4.2	2.5	2.3	3.1	2.6	4.2
P ₂ O ₅	0.3	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
SO ₃	0.2	0.2	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
LOI	0.5	1.5	1.5	0.8	1.4	2.6	2.5	2.1	1.5	1	1.9
Total	100	100.5	98.9	100.1	99.2	100.1	100.4	100.4	99.7	99.8	100
Trace Elements											
(ppm)											
Rb	6.5	30	18	11	36	188	110	100	142	88	170
Ba	94	276	63	8.5	104	912	460	445	590	508	902
Sr	281	471	266	625	349	127	161	171	122	70	98
U	2.5	1.5	0.5	0.9	1.4	3	2.8	2.8	3.6	3.1	4
Th	5.5	7.8	7.8	6.5	5.8	15	12	11.8	15	13.5	18
Nb	6	12	12	7	6	17	13	13	17	15	18
Ta	<0.1	0.6	0.3	<0.1	<0.1	1.2	0.9	0.8	1.3	1	1.3
Mn	2490	883	1030	1120	1546	375	677	611	495	540	473
V	346	27	172	340	387	130	113	113	104	75	147
Cr	13	5	1025	10	10	107	96	104	88	70	113
Y	33	30	19	18	18	35	29	27	37	27	36
La	21	19	14	13	12	45	33	32	48	36	51
Ce	42	44	31	31	23	88	66	63	100	66	94
Pr	5.4	5.6	3.7	3.8	3.4	11	8	8	11	8.5	12
Nd	23	24	15.5	16	14.5	41	30	30	41	32	44
Sm	5.1	5.4	3.5	3.8	3.4	7.7	6	6	8.2	6.1	8.5
Eu	1.5	1.5	1.1	1.3	1.1	1.6	1.5	1.3	1.6	1.2	1.6
Tb	0.9	1	0.65	0.65	1.1	1.2	0.9	0.9	1.2	0.9	1.3
Gd	4.4	4.9	3.1	3.3	3	6	4.9	4.8	6.2	4.7	6.5
Dy	5.3	5.7	3.7	3.6	4.4	6.4	5.3	5.1	6.7	4.9	6.8
Ho	1.15	1.2	0.75	0.75	0.65	1.3	1.1	1	1.35	1	1.35
Er	3.5	3.4	2.3	2.2	2	3.9	3.2	2.9	4.1	3	4.1
Tm	0.53	0.47	0.3	0.3	0.27	0.53	0.45	0.38	0.56	0.41	0.56
Yb	3.5	3.2	2	2.1	1.9	3.5	3	2.4	3.7	2.7	3.7
Lu	0.56	0.46	0.3	0.3	0.31	0.52	0.43	0.35	0.56	0.39	0.56
Zr	100	220	100	90	115						
Coordinates	38°05'59"N 25°49'38"E	37°07'07"N 25°48'28"E	37°06'39"N 25°47'46"E	37°06'39"N 25°47'46"E	38°05'59"N 25°49'38"E	37°05'40"N 25°49'11"E	37°06'15"N 25°47'56"E	37°06'15"N 25°47'56"E	37°05'48"N 25°49'12"E	37°05'00"N 25°49'53"E	37°06'15"N 25°47'53"E