

Table 1. Zircon LA-ICP-MS U-Pb data of the metamorphic rocks from the north-eastern part of the Ereendavaa terrane.

Spot	Th/ Ratio	Isotopic ratios						Ages (Ma)						Discordance
		$^{207}\text{Pb}/^{206}\text{Pb}$		$^{207}\text{Pb}/^{235}\text{U}$		$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{206}\text{Pb}$		$^{207}\text{Pb}/^{235}\text{U}$		$^{206}\text{Pb}/^{238}\text{U}$		
		Ratio	1σ	Ratio	1σ	Ratio	1σ	Age	1σ	Age	1σ	Age	1σ	
Black schist sample 320														
320-01	0.32	0.05916	0.00157	0.67401	0.01765	0.08278	0.00101	573	57	523	11	513	6	10
320-02	0.26	0.05871	0.00154	0.81445	0.02107	0.10078	0.00123	557	56	605	12	619	7	-11
320-03	0.31	0.05974	0.00222	0.79297	0.02888	0.09644	0.00135	594	79	593	16	594	8	0
320-04	0.56	0.05606	0.00147	0.60541	0.0157	0.07847	0.00095	454	57	481	10	487	6	-7
320-7	0.80	0.05305	0.00118	0.36624	0.00805	0.05015	0.00057	331	49	317	6	315	4	5
320-8	0.49	0.05713	0.00127	0.68419	0.01505	0.087	0.00101	496	49	529	9	538	6	-8
320-9	0.53	0.05636	0.00182	0.66843	0.0212	0.08615	0.00112	466	70	520	13	533	7	-14
320-10	0.26	0.0849	0.00146	1.91348	0.03289	0.16373	0.00186	1313	33	1086	11	978	10	26
320-11	0.28	0.07015	0.00132	1.36813	0.0256	0.14167	0.00162	933	38	875	11	854	9	8
320-12	0.69	0.05821	0.00118	0.68203	0.01375	0.08511	0.00097	537	44	528	8	527	6	2
320-13	0.63	0.05629	0.00131	0.60676	0.01396	0.07831	0.00091	463	51	482	9	486	5	-5
320-14	1.28	0.05388	0.00176	0.47386	0.01522	0.06389	0.00082	366	72	394	10	399	5	-9
320-15	1.20	0.05383	0.00163	0.3471	0.01035	0.04684	0.00058	364	67	303	8	295	4	19
320-16	0.77	0.05527	0.00158	0.37136	0.01048	0.0488	0.0006	423	62	321	8	307	4	27
320-17	1.32	0.05474	0.00201	0.49993	0.018	0.06634	0.00089	402	79	412	12	414	5	-3
320-18	0.79	0.05487	0.00096	0.49794	0.00871	0.06592	0.00073	407	38	410	6	412	4	-1
320-19	0.92	0.05897	0.00127	0.48566	0.01038	0.05982	0.00069	566	46	402	7	375	4	34
320-20	0.78	0.05243	0.00113	0.33865	0.00725	0.04692	0.00053	304	48	296	6	296	3	3
320-21	0.91	0.05759	0.00122	0.62707	0.01312	0.07909	0.0009	514	46	494	8	491	5	4
320-22	0.78	0.08341	0.00166	1.9115	0.03766	0.16645	0.00196	1279	38	1085	13	993	11	22
320-23	0.54	0.06045	0.00123	0.744	0.01506	0.08938	0.00102	620	43	565	9	552	6	11
320-24	0.66	0.46074	0.00527	6.31588	0.07239	0.09956	0.00109	4120	17	2021	10	612	6	85
320-25	0.94	0.05832	0.00209	0.69414	0.0244	0.08644	0.00118	541	77	535	15	535	7	1
320-26	0.39	0.05775	0.0011	0.67452	0.01283	0.08482	0.00095	520	42	524	8	525	6	-1
320-27	0.57	0.06046	0.00142	0.70252	0.01632	0.08438	0.001	620	50	540	10	522	6	16
320-28	0.62	0.05936	0.00117	0.73791	0.01445	0.09027	0.00102	581	42	561	8	557	6	4
320-29	1.05	0.17412	0.00363	1.17784	0.02351	0.04913	0.00063	2598	34	790	11	309	4	88
320-30	0.17	0.05849	0.00105	0.69035	0.01234	0.08571	0.00095	548	39	533	7	530	6	3
320-31	0.95	0.05565	0.0016	0.56322	0.01599	0.07349	0.00091	438	63	454	10	457	5	-4
320-32	1.64	0.06975	0.00162	1.46915	0.03383	0.15295	0.00185	921	47	918	14	918	10	0
320-33	0.84	0.05234	0.0011	0.33327	0.00692	0.04623	0.00052	300	47	292	5	291	3	3
320-34	0.16	0.11959	0.00134	3.48535	0.04015	0.21162	0.00225	1950	20	1524	9	1237	12	37
320-35	0.93	0.34428	0.00409	3.35391	0.03972	0.07074	0.00078	3682	18	1494	9	441	5	88
320-36	0.89	0.05801	0.0022	0.58239	0.02162	0.07289	0.00101	530	81	466	14	454	6	14
320-37	0.70	0.05207	0.00187	0.34037	0.012	0.04746	0.00062	289	80	298	9	299	4	-4
320-39	0.66	0.06368	0.00181	1.07136	0.03006	0.12215	0.00155	731	59	739	15	743	9	-2
320-40	1.31	0.10138	0.00175	4.01139	0.06909	0.28728	0.00336	1650	32	1637	14	1628	17	1
320-41	0.22	0.05722	0.00116	0.66508	0.01338	0.08439	0.00096	500	45	518	8	522	6	-5
320-42	0.68	0.12944	0.0017	4.55219	0.06056	0.25533	0.00281	2090	23	1741	11	1466	14	30
320-43	0.71	0.11038	0.00251	4.8296	0.10914	0.31766	0.00421	1806	41	1790	19	1778	21	2
320-44	0.93	0.05309	0.00139	0.37077	0.00961	0.0507	0.0006	333	59	320	7	319	4	4
320-45	1.16	0.0916	0.00241	3.17605	0.08267	0.25173	0.00341	1459	49	1451	20	1447	18	1
320-46	0.55	0.06379	0.00091	0.76772	0.01102	0.08736	0.00094	735	30	579	6	540	6	27
320-47	0.68	0.05566	0.00223	0.56196	0.02212	0.07329	0.00104	439	87	453	14	456	6	-4
320-48	0.74	0.05854	0.00208	0.73772	0.02578	0.09149	0.00124	550	76	561	15	564	7	-3
320-49	2.20	0.11577	0.00175	5.38245	0.08208	0.33749	0.00386	1892	27	1882	13	1875	19	1
320-50	0.77	0.05291	0.00142	0.34224	0.00906	0.04696	0.00056	325	60	299	7	296	3	9
320-51	0.80	0.05228	0.00099	0.34054	0.00643	0.04728	0.00052	298	43	298	5	298	3	0
320-52	0.52	0.05545	0.00155	0.54738	0.01507	0.07166	0.00088	430	61	443	10	446	5	-4
320-53	1.83	0.05608	0.00179	0.50976	0.01599	0.06598	0.00084	455	69	418	11	412	5	9
320-54	1.05	0.05585	0.00204	0.50845	0.01821	0.06608	0.00089	446	79	417	12	413	5	8
320-55	0.58	0.05723	0.00133	0.68389	0.01567	0.08674	0.00101	500	51	529	9	536	6	-7
320-56	0.57	0.05145	0.00164	0.32776	0.0103	0.04623	0.00058	261	72	288	8	291	4	-12
320-57	0.87	0.05798	0.0009	0.67318	0.01053	0.08427	0.00091	529	34	523	6	522	5	1
320-58	0.37	0.0581	0.00154	0.65085	0.01705	0.0813	0.00099	533	58	509	10	504	6	5
320-59	0.47	0.05769	0.0011	0.73047	0.01383	0.09189	0.00103	518	42	557	8	567	6	-9
320-60	1.25	0.0523	0.00103	0.33961	0.00662	0.04713	0.00052	299	44	297	5	297	3	1
320-61	0.91	0.05509	0.00211	0.31601	0.01185	0.04163	0.00057	416	83	279	9	263	4	37
320-62	0.38	0.05787	0.00132	0.67321	0.01517	0.08443	0.00098	525	49	523	9	523	6	0
320-63	0.58	0.05363	0.00138	0.35475	0.00899	0.04801	0.00057	355	57	308	7	302	3	15

Table 2. Major and trace element composition of Early Permian mafic and felsic schists

Sample	E6	E7	O42	O40	AO1	324/1	329	321	AO2	323	AO3	324	319
Major oxides (wt %)													
SiO ₂	43.8	46.5	46.6	49.1	52.5	65.6	67.2	67.4	69.3	72.4	73.0	76.8	78.2
TiO ₂	2.79	1.79	0.47	0.39	0.90	0.69	0.47	0.40	0.28	0.13	0.19	0.18	0.11
Al ₂ O ₃	14.6	14.4	12.5	13.3	17.4	14.6	15.5	12.9	17.0	15.3	14.4	12.0	12.0
Fe ₂ O ₃ T	18.9	14.3	12.27	9.62	11.2	7.30	4.8	4.64	3.62	2.51	4.02	2.31	1.06
MnO	0.016	0.019	0.37	0.20	0.013	0.06	0.006	0.06	0.002	0.002	0.003	0.001	0.001
MgO	9.03	7.28	10.6	9.61	4.89	2.56	1.78	5.87	0.81	1.61	1.08	0.31	0.37
CaO	2.49	10.3	13.8	14.6	7.27	0.48	0.82	0.08	0.13	0.11	0.04	0.08	0.15
Na ₂ O	1.57	1.86	0.89	0.90	3.18	5.08	7.07	0.06	1.65	1.44	0.65	1.49	1.22
K ₂ O	0.02	0.05	0.62	0.42	0.64	0.25	0.39	2.79	4.53	3.78	3.77	4.99	4.07
P ₂ O ₅	0.24	0.14	0.01	0.10	0.18	0.17	0.11	0.08	0.06	0.04	0.03	0.05	0.03
L.O.I	6.80	3.51	1.30	1.40	2.00	3.10	1.93	5.30	2.81	2.88	2.99	1.76	2.25
Total	100.3	100.2	99.5	99.6	100.2	99.9	100.1	99.6	100.2	100.1	100.2	99.9	99.5
Na ₂ O+K	1.59	1.91	1.51	1.32	3.82	5.33	7.46	2.85	6.18	5.22	4.42	6.48	5.29
A/CNK	2.05	0.66	0.46	0.47	0.91	1.54	1.14	3.95	2.17	2.29	2.76	1.50	1.80
A/NK	5.61	4.63	5.86	6.87	2.94	1.70	1.29	4.14	2.23	2.36	2.80	1.53	1.88
Mg#	49	50	63	66	46	41	42		31	56	35	21	41
Trace element (ppm)													
Sc	31.3	25.2	4.00	4.05	0.54	<1	10.6	12.9	17.0	15.0	11.8	9.33	9.87
V	256	177	6.00	14.0	2.62		126	110	174	160	85.8	57.5	59.2
Cr	86.0	138	110	197	154		22.9	29.3	70.0	140	79.2	51.5	66.4
Co	30.4	29.7	1.00	1.12	0.67	0.80	15.9	18.3	21.0	16.0	9.90	3.31	5.00
Ni	32.4	49.5	< 20	5.82	6.64	0.80	22.6	6.13	< 20	< 20	24.0	4.19	5.69
Cu	31.8	29.2	< 10	5.18	6.37	2.20	58.2	15.6	10.0	50.0	5.08	28.4	5.41
Zn	117	102	70.0	54.6	35.0	76.0	78.2	89.8	100	40.0	50.4	29.8	82.0
Ga	21.4	20.0	22.0	24.2	22.2	25.7	20.0	15.3	20.0	17.0	19.6	21.8	22.7
Rb	76.1	67.3	160	191	212	228	34.8	24.9	16.0	30.0	7.37	110	143
Sr	413	301	45.0	58.8	5.13	28.8	2109	383	707	678	566	575	667
Y	34.7	36.5	38.4	40.1	5.93	126	19.5	15.6	25.0	19.0	17.5	20.9	22.0
Zr	191	247	180	332	276	662	143	93.5	120	106	174	187	215
Nb	7.41	9.43	9.00	18.2	21.1	29.4	4.96	3.15	4.10	4.10	6.52	9.69	10.7
Cs	2.2	1.2	6.8	10.0	3.1	1.8	1.6	1.2	0.8	0.9	0.2	2.9	2.0
Ba	724	402	383	573	9.67	40.0	390	240	391	542	163	1014	1046
La	24.2	33.4	22.1	51.5	24.0	44.9	25.8	21.9	18.8	19.6	27.0	38.6	41.8
Ce	58.4	77.0	78.8	111	46.6	90.3	60.8	47.5	41.6	42.1	59.8	80.9	85.2
Pr	8.14	9.87	6.11	14.6	5.21	13.1	8.29	6.09	5.73	5.47	7.67	9.68	9.98
Nd	34.7	40.0	23.7	57.2	16.9	52.9	34.5	24.1	23.5	23.5	30.5	36.7	36.6
Sm	7.50	8.29	4.90	11.1	2.66	15.3	6.61	4.52	4.68	5.19	5.63	6.92	6.65
Eu	2.31	2.02	0.38	0.71	0.04	0.23	1.81	1.39	1.61	1.39	1.62	1.68	1.60
Gd	7.03	7.72	4.16	9.24	2.18	17.3	5.35	3.77	4.48	4.38	4.74	5.72	5.66
Tb	1.07	1.17	0.91	1.42	0.27	3.39	0.70	0.50	0.75	0.60	0.64	0.76	0.77
Dy	6.48	7.03	6.33	7.93	1.51	20.6	3.91	2.91	4.36	3.58	3.63	4.26	4.36
Ho	1.33	1.45	1.36	1.63	0.31	4.25	0.78	0.61	0.85	0.73	0.71	0.82	0.87
Er	3.59	3.99	4.06	4.64	0.90	13.0	2.10	1.73	2.53	2.25	1.89	2.21	2.38
Tm	0.51	0.58	0.65	0.67	0.15	2.01	0.31	0.27	0.40	0.34	0.27	0.32	0.35
Yb	3.22	3.73	4.41	4.44	0.99	13.0	2.04	1.81	2.81	2.24	1.78	2.04	2.27
Lu	0.48	0.57	0.66	0.67	0.15	1.90	0.32	0.30	0.46	0.34	0.27	0.31	0.35
Hf	4.60	6.00	5.50	10.7	9.90	20.8	3.75	2.65	3.10	2.70	4.78	5.18	5.88
Ta	0.45	0.53	0.85	1.11	1.48	1.90	0.35	0.23	0.19	0.26	0.40	0.75	0.79
Pb	5.69	7.28	9.00	15.6	35.8	27.9	24.1	6.07	5.00	6.00	7.69	13.0	20.3
Th	0.98	5.03	15.7	13.0	6.24	22.2	4.34	2.66	2.66	3.33	4.46	12.4	13.5
U	0.38	1.20	2.31	5.45	4.89	5.70	1.42	0.86	1.11	1.34	1.25	2.70	3.42
Lan/Ybn	1.24	1.68	3.68	3.44	4.13	2.22	3.94	3.92	9.14	2.58	9.64	10.76	8.26
Lan/Smn	0.65	1.03	2.69	3.18	2.44	2.12	2.86	3.00	4.91	2.90	4.42	4.77	4.71
Eu/Eu*	1.01	0.99	0.92	0.90	0.90	0.91	0.59	0.21	0.47	0.29	0.56	0.52	0.30
Ba/Th	30.7	45.9	43.6	27.7	232.8	59.3	56.0	283.9	87.7	145.2	43.3	77.0	54.9
NB/U	8.50	38.74	4.00	4.75	8.08	3.22	5.39	1.82	2.59	3.99	2.91	2.22	2.03
Ce/Pb	7.69	9.44	0.55	0.27	5.70	6.95	2.41	0.02	2.22	2.12	4.94	3.36	6.94
Th/U	0.62	3.30	2.00	3.25	2.81	1.56	3.48	1.50	5.27	2.70	6.47	4.27	4.08
Ba/Cs	50.6	267	76.3	16.4	144	104	188	625	703	310	306	890	494
Rb/Cs	6.59	11.77	5.38	3.86	8.86	11.25	10.21	44.2	49.41	34.68	40.36	75.54	69.44

Table 3. Major and trace element composition of Early Permian black schist and Middle Permian psammitic schists

Samp+	A04	320	O35	O36	O37	O38	O42/1	O37/2	O38/1	O43	O45	O37/3	O46	O47/1	O46/1	E5	E2	E4	E3
Major oxides (wt %)																			
SiO ₂	69.9	76.6	77.6	69.8	76.8	76.5	76.2	74.5	64.1	71.0	72.4	61.5	70.6	76.8	70.2	64.1	65.1	76.3	80.7
TiO ₂	0.41	0.25	0.07	0.49	0.06	0.06	0.2	0.12	0.63	0.52	0.22	0.61	0.69	0.17	0.54	0.28	0.31	0.46	0.35
Al ₂ O ₃	14.5	13.1	12.3	14.1	12.2	12.6	11.1	11.8	15.4	15.1	13.2	18.6	15.7	13.1	17.8	5.7	6.0	11.2	10.8
Fe ₂ O ₃ T	5.59	2.11	1.21	4.11	1.12	1.18	3.05	2.82	5.9	2.95	2.94	6.03	2.35	1.83	1.73	3.21	4.2	3.32	0.94
MnO	0.003	0.01	0.03	0.06	0.05	0.003	0.004	0.008	0.017	0.07	0.005	0.023	0.05	0.002	0.01	0.009	0.011	0.002	0.001
MgO	1.62	0.50	0.10	1.14	0.18	0.19	1.47	0.83	1.86	1.35	1.14	1.67	0.61	0.48	0.55	1.42	1.86	1.01	0.4
CaO	0.07	0.04	0.65	1.36	0.53	1.11	1.6	0.79	1.06	1.73	1.13	0.9	2.08	1.71	0.10	12.59	11.02	0.22	0.17
Na ₂ O	0.01	0.07	4.28	3.53	2.49	5.38	3.23	2.28	2.89	2.40	2.48	1.86	3.16	2.52	0.17	0.01	0.01	1.29	2.79
K ₂ O	4.25	4.29	2.94	4.10	5.54	1.18	1.54	4.61	5.93	3.08	5.09	6.6	2.88	1.98	5.57	1.42	1.26	2.8	2.31
P ₂ O ₅	0.13	0.03	0.02	0.05	0.03	0.03	0.01	0.03	0.39	0.14	0.04	0.15	0.10	0.03	0.07	0.1	0.17	0.08	0.01
L.OI	3.92	2.9	0.6	1.2	0.8	0.7	1.89	0.93	1.49	1.4	0.9	2.07	1.6	1.26	3.1	11.41	10.49	3.33	1.64
Total	100	99.8	99.8	99.9	99.8	98.8	100	98.7	99.7	99.7	99.6	100	99.8	99.9	99.8	100	100	99.9	100
ClA	76.6	73.3	52.0	52.8	52.6	51.0	53.0	53.9	55.9	59.9	53.4	61.8	56.9	58.4	73.4	19.0	22.1	67.5	59.3
ICV	0.87	0.59	1.02	1.34	1.01	1.07	1.42	1.20	1.39	1.07	1.25	1.10	1.01	0.91	0.54	5.31	4.84	0.95	0.88
Trace elements, ppm																			
Sc	6.95	7.00	2.00	9.00	3.00	3.45	8.71	4.09	15.4	6.00	5.19	17.1	6.00	6.68	8.00	6.24	7.27	11.0	6.89
V	99.55	45.0	7.00	55.0	7.00	4.92	33.1	17.8	75.6	34.0	13.2	61.9	54.0	6.36	54.0	35.6	49.2	92.7	31.0
Cr	51.81	0.01	0.009	0.014	0.007	112	345	91.2	100	0.01	61.6	82.5	0.02	157	0.01	62.7	116	142	73.8
Co	5.62	0.7	1.1	4.8	1.3	0.92	5.08	3.48	8.35	2.8	1.87	8.43	3.6	0.98	2.8	6.74	6.38	10.4	0.82
Ni	16.3	<20	<20	<20	<20	2.78	10.5	9.72	7.56	<20	2.32	12.0	<20	4.05	<20	17.8	22.0	17.2	6.65
Cu	5.80	9.80	4.30	4.20	42.2	11.8	56.7	57.3	5.92	9.10	64.2	5.55	3.30	11.8	2.90	15.5	16.4	15.8	3.84
Zn	122	9.00	20.0	72.0	190	49.0	53.4	201	216	44.0	53.0	332	32.0	45.9	9.00	45.8	49.6	82.5	28.7
Ga	12.5	20.1	12.2	14.2	9.5	7.79	8.06	12.1	19.2	18.4	10.8	22.7	14.2	12.9	18.2	6.03	7.12	17.9	11.8
Rb	100	171	63.6	120	123	21.6	57.1	86.2	146	117	93.0	210	103	50.6	174	39.3	36.9	100	72.6
Sr	16.4	18.2	130	220	126	112	117	78.1	106	234	176	75.8	213	155	18.1	175	330.5	92.0	76.5
Y	21.7	25.5	25.5	27.3	32.5	23.5	21.6	21.5	33.0	26.2	21.7	39.9	19.6	15.7	13.5	15.8	19.2	25.3	15.7
Zr	122	153	101	185	89.6	67.2	127	86.2	206	302	183	215	175	138	272	36.7	79.7	178	135
Nb	7.95	8.80	10.5	8.00	8.90	7.76	4.60	7.13	10.5	14.0	8.53	14.87	9.80	6.65	14.7	3.37	4.09	9.79	6.27
Cs	4.22	4.10	4.00	8.10	0.90	1.29	22.54	3.59	22.8	21.3	5.03	9.38	7.60	2.90	4.90	2.17	2.27	5.37	5.79
Ba	470	737	1145	451	934	559	349	689	1079	1323	672	1121	563	941	813	230	271	818	368
La	25.5	27.6	12.3	35.0	15.9	9.95	16.0	9.63	31.3	72.0	18.0	35.4	41.5	22.9	3.90	17.2	13.7	40.5	14.1
Ce	50.8	52.9	40.5	72.0	39.1	28.1	46.0	20.4	61.8	130	49.0	68.4	81.3	44.2	45.5	33.3	27.5	79.3	30.6
Pr	5.88	6.24	3.03	8.42	3.28	2.34	4.02	2.33	7.14	14.2	4.52	8.15	8.20	4.67	0.95	4.08	3.27	9.59	3.71
Nd	22.4	21.8	10.6	31.8	11.4	8.56	14.1	8.70	27.2	52.2	17.3	31.2	31.2	16.7	3.40	15.8	13.2	36.5	14.0
Sm	4.24	4.69	2.29	6.16	2.88	2.14	3.06	2.07	5.33	8.49	3.35	6.22	4.76	3.14	0.71	3.11	2.76	6.71	2.80
Eu	0.77	0.66	0.38	1.40	0.29	0.26	0.62	0.39	0.93	1.24	0.74	0.71	1.28	0.67	0.13	0.70	0.69	1.28	0.57
Gd	3.92	4.23	2.42	5.43	3.34	2.58	2.90	2.36	5.13	7.07	3.17	6.09	4.31	2.98	1.14	2.83	2.88	5.75	2.53
Tb	0.61	0.67	0.51	0.83	0.72	0.52	0.53	0.48	0.85	0.95	0.54	1.01	0.64	0.47	0.28	0.44	0.49	0.85	0.44
Dy	3.50	4.32	3.49	4.62	4.61	3.51	3.49	3.18	5.24	4.84	3.51	6.16	3.64	2.75	2.03	2.60	2.99	4.57	2.69
Ho	0.76	0.92	0.90	1.03	1.20	0.79	0.80	0.76	1.17	0.91	0.82	1.37	0.83	0.57	0.50	0.57	0.68	0.92	0.59
Er	2.24	2.87	2.87	3.36	4.01	2.41	2.36	2.29	3.36	2.87	2.54	4.03	2.39	1.60	1.88	1.69	2.07	2.51	1.65
Tm	0.34	0.42	0.47	0.45	0.57	0.38	0.36	0.38	0.50	0.42	0.41	0.64	0.32	0.25	0.36	0.27	0.32	0.38	0.25
Yb	2.37	2.99	3.73	3.54	4.08	2.54	2.32	2.58	3.36	2.57	2.78	4.27	2.09	1.73	2.78	1.88	2.22	2.49	1.71
Lu	0.38	0.44	0.55	0.52	0.63	0.41	0.37	0.42	0.54	0.36	0.44	0.65	0.26	0.28	0.52	0.30	0.37	0.39	0.27
Hf	3.72	4.30	4.40	5.00	3.50	2.65	3.86	3.41	5.88	7.80	5.11	6.23	4.20	3.84	7.40	1.03	2.15	5.13	3.95
Ta	0.55	0.70	1.10	0.60	0.80	0.62	0.40	0.46	0.78	0.90	0.61	1.39	0.50	0.53	1.00	0.18	0.27	0.68	0.46
Pb	90.8	23.5	1.40	1.60	45.80	54.6	38.7	594	70.3	3.50	58.7	82.6	5.80	8.41	2.70	14.6	14.2	20.7	9.74
Th	8.95	12.00	13.7	11.1	12.7	9.16	8.68	8.94	10.1	28.2	8.70	12.3	7.20	10.1	9.90	2.96	3.24	9.60	6.56
U	1.85	5.20	3.80	2.40	2.90	2.02	1.70	1.95	2.16	8.20	2.77	2.57	1.90	2.61	2.60	0.86	0.58	5.09	1.83
Eu/Eu*	0.58	0.45	0.49	0.74	0.29	0.33	0.63	0.54	0.54	0.49	0.69	0.35	0.86	0.67	0.44	0.72	0.75	0.63	0.66
Lan/Ybn	7.73	6.62	2.37	7.09	2.80	2.80	4.94	2.68	6.67	20.10	4.63	5.95	14.24	9.49	1.01	6.57	4.43	11.69	5.93
Lan/Sm	3.88	3.80	3.47	3.67	3.56	3.00	3.36	3.01	3.79	5.47	3.46	3.68	5.63	4.71	3.55	3.58	3.20	3.90	3.25