

Table S4. Mean, minimum, maximum and Standard Deviation (St.D.) of Ce, Eu and Y anomalies and of rare earth elements plus yttrium calculated on the LA-ICP-MS data of the selected laminae.

		Ce anomaly	Eu anomaly	Y Anomaly	La	Ce	Pr	Ns	Sm	Eu	Gd	Tb	Dy	Y	Ho	Er	Tm	Yb	Lu
Hydrogenetic $n = 29$																			
DR02-10	Mean	2.5	1.0	0.7	344	1550	68	283	59	13	61	9	54	202	10	28	4	25	4
	Min.	1.0	1.0	0.6	273	893	48	201	40	10	45	7	41	169	8	25	4	23	3
	Max.	4.3	1.1	0.7	440	2340	95	385	79	19	82	11	66	238	12	34	4	28	4
	St.D.	1.4	0.0	0.0	57	601	17	65	14	3	14	2	10	25	2	3	0	2	0
DR07-9	Mean	3.1	1.1	0.6	272	1664	58	242	49	12	49	7	41	131	8	22	3	19	3
	Min.	1.9	1.0	0.5	106	591	23	99	22	6	23	4	22	82	4	13	2	12	2
	Max.	4.6	1.3	0.7	440	2220	86	360	71	18	83	12	73	269	14	41	5	36	5
	St.D.	0.8	0.1	0.1	81	456	16	67	12	3	15	2	13	50	2	8	1	7	1
DR16-14	Mean	1.9	1.1	0.6	460	1868	107	425	87	20	82	12	73	225	13	36	5	30	4
	Min.	1.9	1.0	0.6	380	1600	90	360	73	17	66	10	62	198	11	30	4	27	4
	Max.	2.0	1.2	0.6	517	2060	118	476	97	24	91	14	83	253	14	41	5	34	5
	St.D.	0.0	0.1	0.0	62	214	14	52	12	3	11	2	9	26	2	5	1	4	1
107-11H	Mean	4.4	1.0	0.7	353	2727	63	264	52	12	56	8	50	207	10	30	4	27	4
	Min.	3.2	1.0	0.7	242	1940	46	192	37	9	40	6	35	147	7	21	3	19	3
	Max.	5.9	1.1	0.8	457	3580	84	349	68	15	72	11	62	254	13	38	5	33	5
	St.D.	1.0	0.0	0.0	73	660	13	54	11	2	11	2	10	43	2	6	1	6	1
Diagenetic $n = 10$																			
DR02-10	Mean	0.6	1.1	0.9	16	19	4	16	5	0.9	4	0.5	3	17	0.6	1.8	0.2	1.6	0.2
	Min.	0.4	0.7	0.8	11	11	3	14	3	0.7	2	0.4	2	9	0.4	1.1	0.1	0.9	0.1
	Max.	1.0	1.5	1.1	20	25	5	20	8	1.2	5	0.7	5	27	0.9	2.7	0.4	2.3	0.3
	St.D.	0.2	0.3	0.1	4	5	1	3	2	0.2	1	0.1	1	6	0.2	0.6	0.1	0.5	0.1
DR07-9	Mean	0.7	1.1	0.6	21	38	7	25	5	1	6	1	4	17	1	2	0.4	2	0.3
	Min.	0.4	0.9	0.5	11	22	2	10	2	0.4	2	0.3	2	5	0.3	1	0.1	1	0.1
	Max.	1.2	1.3	0.9	36	50	19	53	11	3	14	1	9	50	2	5	1	4	1
	St.D.	0.4	0.2	0.2	12	12	7	18	4	1	5	1	3	19	1	2	0.3	1	0.3
Early Diagenetic $n = 10$																			
DR07-9	Mean	2.5	1.1	0.6	35	190	8	37	8	2	9	1	8	29	2	4	1	4	1
	Min.	2.0	0.8	0.5	16	84	4	15	4	1	3	0.5	3	10	1	2	0.3	2	0.2
	Max.	3.5	1.3	0.9	57	273	13	60	12	3	15	2	13	56	3	7	1	8	1
	St.D.	0.5	0.2	0.1	14	62	3	15	3	1	4	1	3	15	1	2	0.3	2	0.2
Hydrogenetic/Hydrothermal Fe-Oxihydroxides $n = 11$																			
DR16-14	Mean	2.1	1.1	0.8	151	726	35	148	36	8	38	6	40	162	7	22	3	21	3

	Min.	1.2	1.0	0.7	61	208	15	64	18	4	22	3	22	104	5	14	2	14	2
	Max.	3.1	1.1	0.8	372	2330	81	324	75	16	70	11	71	259	13	36	5	32	5
	St.D.	0.7	0.0	0.1	129	817	29	115	26	5	24	4	23	69	4	10	1	8	1
107-11H	Mean	4.4	1.0	0.7	177	1614	39	172	39	9	44	6	41	166	8	23	3	21	3
	Min.	3.7	1.0	0.7	118	1200	17	74	16	4	20	3	21	94	4	13	2	12	2
	Max.	5.0	1.1	0.8	219	1990	46	203	48	11	51	8	48	192	9	27	4	24	4
	St.D.	0.5	0.0	0.1	38	338	12	56	13	3	13	2	11	41	2	6	1	5	1
Hydrothermal/Hydrogenetic Fe-Oxihydroxides $n = 2$																			
	Mean	3.9	1.0	0.9	60	554	12	53	14	3	15	2	17	85	4	11	2	11	2
	Min.	3.9	1.0	0.8	50	413	10	43	12	3	13	2	15	77	3	10	2	9	2
	Max.	4.0	1.0	0.9	74	837	14	63	15	4	18	3	19	95	4	12	2	12	2
	St.D.	0.0	0.1	0.0	11	192	2	9	2	0	2	0	2	8	0	1	0	1	0
Hydrothermal Fe-Oxihydroxides $n = 2$																			
107-11H	Mean	1.7	1.0	1.0	28	97	6	27	7	2	9	2	11	66	2	8	1	9	1
	Min.	1.7	1.0	0.9	18	68	4	19	5	1	7	1	9	58	2	7	1	8	1
	Max.	1.8	1.1	1.1	37	127	8	35	10	2	11	2	14	75	3	9	1	11	2
	St.D.	0.1	0.1	0.1	13	42	3	11	3	1	3	1	3	12	1	2	0	2	0
Hydrothermal Altered Rock $n = 4$																			
107-11H	Mean	0.6	1.2	1.4	22	7	4	13	3	1	3	0	4	39	1	3	0	3	1
	Min.	0.1	0.9	1.1	9	6	1	5	1	0	2	0	2	20	1	1	0	2	0
	Max.	1.8	1.7	1.6	42	8	7	20	4	2	5	1	6	62	2	5	1	5	1
	St.D.	0.8	0.4	0.2	17	1	3	7	2	1	2	0	2	21	0	2	0	2	0