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Supporting Table 1. Measured values for the certified material (CASS-4 and NASS-5)

Element	CRM (ng/L)			
	CASS-4[a]	CASS-4[b]	NASS-5[a]	NASS-5[c]
La	10.8 ± 0.2	10.0 ± 0.4	11.8 ± 0.04	11.8 ± 0.4
Ce	7.4 ± 0.2	6.1 ± 0.3	8.50 ± 0.15	5.23 ± 0.05
Pr	1.54 ± 0.02	1.42 ± 0.04	1.96 ± 0.03	1.84 ± 0.06
Nd	6.9 ± 0.1	5.5 ± 0.5	8.3 ± 0.2	7.5 ± 0.1
Eu	0.22 ± 0.00	0.19 ± 0.03	0.4 ± 0.03	0.29 ± 0.02
Gd	1.5 ± 0.0	1.4 ± 0.2	1.67 ± 0.19	1.59 ± 0.08
Tb	0.23 ± 0.01	0.17 ± 0.03	0.29 ± 0.01	0.24 ± 0.02
Dy	1.6 ± 0.0	1.5 ± 0.2	1.9 ± 0.1	1.8 ± 0.2
Ho	0.37 ± 0.02	0.35 ± 0.03	0.48 ± 0.02	0.43 ± 0.02
Er	1.0 ± 0.1	1.1 ± 0.1	1.53 ± 0.05	1.36 ± 0.08
Tm	0.21 ± 0.00	0.20 ± 0.05	0.22 ± 0.00	0.18 ± 0.01
Yb	1.4 ± 0.	1.2 ± 0.2	1.32 ± 0.07	1.13 ± 0.07

[a] This study

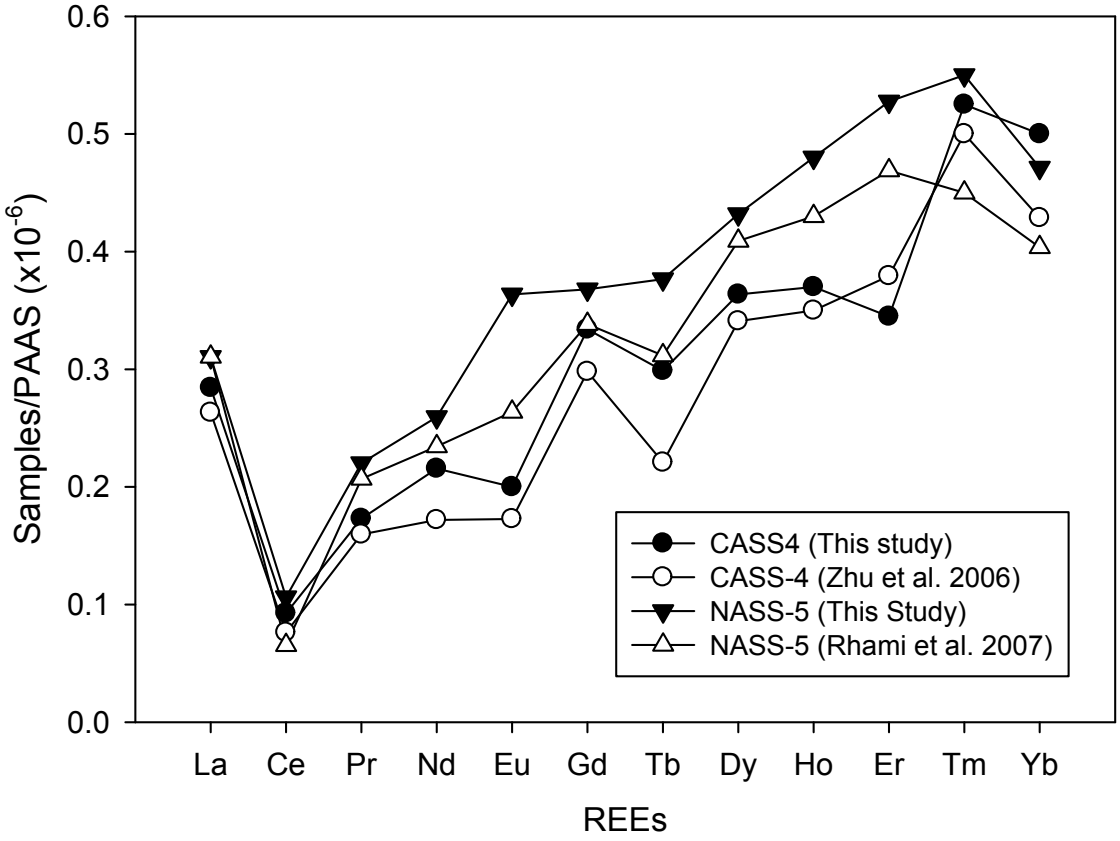
[b] Zhu et al. (2006)

[c] Rhami et al. (2007)

Zhu Y, Itoh A, Fujimori E, Umemura T, Haraguchi H (2006) Determination of rare earth elements in seawater by ICP-MS after preconcentration with a chelating resin-packed minicolumn. J Alloys Compd 408–412:985–988. doi:10.1016/j.jallcom.2004.12.092

Rhami D, Zhu Y, Fujimori E, Umemura T, Haraguchi H (2007) Multielement determination of trace metals in seawater by ICP-MS with down-sized chelating resin

Supporting Figure1. PAAS-normalized patterns of CRMs (CASS-4 and NASS-5) In this study and comparison with values from previous works..



Zhu Y, Itoh A, Fujimori E, Umemura T, Haraguchi H (2006) Determination of rare earth elements in seawater by ICP-MS after preconcentration with a chelating resin-packed minicolumn. J Alloys Compd 408–412:985–988. doi:10.1016/j.jallcom.2004.12.092

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