

Supplementary Data Tables

Table S1
Mass-independent Pt isotope data for terrestrial standard reference materials

Reference Material	$\epsilon^{192}\text{Pt}_{(8/5)}^a$	$\epsilon^{194}\text{Pt}_{(8/5)}^a$	$\epsilon^{196}\text{Pt}_{(8/5)}^a$	$\epsilon^{192}\text{Pt}_{(6/5)}^b$	$\epsilon^{194}\text{Pt}_{(6/5)}^b$	$\epsilon^{198}\text{Pt}_{(6/5)}^b$
NIST SRM 129c ^c	-0.20 ± 1.12	0.09 ± 0.12	0.02 ± 0.07	-0.15 ± 1.13	0.09 ± 0.13	-0.07 ± 0.22
	-0.51 ± 0.93	0.14 ± 0.09	0.05 ± 0.08	-0.54 ± 1.02	0.15 ± 0.13	-0.14 ± 0.24
	1.99 ± 0.96	0.10 ± 0.09	0.12 ± 0.07	2.06 ± 1.00	0.20 ± 0.13	-0.36 ± 0.22
	1.84 ± 1.02	0.27 ± 0.11	0.10 ± 0.08	1.79 ± 1.12	0.39 ± 0.14	-0.28 ± 0.23
	-1.76 ± 1.40	-0.14 ± 0.12	-0.06 ± 0.07	-1.64 ± 1.41	-0.16 ± 0.15	0.17 ± 0.22
	0.32 ± 0.91	0.02 ± 0.12	0.14 ± 0.08	0.46 ± 0.86	0.13 ± 0.13	-0.43 ± 0.25
	-0.48 ± 1.13	0.18 ± 0.10	0.10 ± 0.07	-0.56 ± 1.09	0.31 ± 0.12	-0.29 ± 0.20
	-0.22 ± 1.10	0.00 ± 0.10	0.11 ± 0.07	-0.05 ± 1.11	0.02 ± 0.12	-0.33 ± 0.20
	2.85 ± 1.07	0.17 ± 0.10	0.13 ± 0.10	3.17 ± 1.01	0.36 ± 0.11	-0.40 ± 0.28
	2.47 ± 1.17	0.13 ± 0.09	0.13 ± 0.08	2.33 ± 1.25	0.16 ± 0.13	-0.39 ± 0.23
	0.81 ± 0.95	0.06 ± 0.15	0.06 ± 0.09	0.75 ± 0.96	0.18 ± 0.15	-0.18 ± 0.26
	-1.56 ± 1.07	0.01 ± 0.10	0.27 ± 0.07	-0.86 ± 1.05	0.37 ± 0.13	-0.80 ± 0.22
	2.87 ± 1.09	0.09 ± 0.15	0.11 ± 0.08	3.80 ± 1.12	0.21 ± 0.19	-0.34 ± 0.24
	0.40 ± 1.15	0.13 ± 0.17	0.01 ± 0.09	0.87 ± 1.09	0.17 ± 0.18	-0.04 ± 0.27
	0.53 ± 1.13	-0.02 ± 0.11	0.05 ± 0.09	0.66 ± 1.15	0.02 ± 0.14	-0.15 ± 0.27
	0.13 ± 1.31	-0.06 ± 0.10	0.11 ± 0.09	0.52 ± 1.32	0.12 ± 0.14	-0.33 ± 0.26
	2.77 ± 1.01	0.04 ± 0.09	0.02 ± 0.08	2.74 ± 1.07	0.01 ± 0.13	-0.05 ± 0.23
	1.13 ± 1.09	0.03 ± 0.11	0.07 ± 0.09	1.00 ± 1.00	-0.07 ± 0.18	-0.22 ± 0.28
	-0.41 ± 1.10	0.08 ± 0.12	0.19 ± 0.09	0.44 ± 1.09	0.27 ± 0.14	-0.57 ± 0.26
Mean (n = 19)	0.68 ± 2.88	0.07 ± 0.19	0.09 ± 0.14	0.89 ± 2.89	0.15 ± 0.30	-0.27 ± 0.43
Pt- α	-0.41 ± 0.98	-0.10 ± 0.13	-0.02 ± 0.08	-0.50 ± 0.99	-0.06 ± 0.15	0.05 ± 0.25
	-2.85 ± 1.07	-0.07 ± 0.11	0.20 ± 0.08	-2.32 ± 1.14	0.12 ± 0.13	-0.60 ± 0.23
	-0.27 ± 1.40	0.03 ± 0.08	0.19 ± 0.10	0.40 ± 1.36	0.19 ± 0.14	-0.57 ± 0.29
	1.86 ± 1.01	-0.02 ± 0.14	0.09 ± 0.08	1.80 ± 1.09	0.06 ± 0.14	-0.25 ± 0.25
	-0.25 ± 1.32	-0.03 ± 0.11	-0.07 ± 0.08	-0.32 ± 1.32	-0.06 ± 0.15	0.21 ± 0.25
	-0.52 ± 1.53	-0.05 ± 0.13	0.01 ± 0.10	-0.76 ± 1.60	-0.09 ± 0.15	-0.03 ± 0.30
Mean (n = 7)	-0.41 ± 2.99	-0.04 ± 0.09	0.07 ± 0.22	-0.28 ± 2.72	0.03 ± 0.23	-0.20 ± 0.67

^a Normalised to $^{198}\text{Pt}/^{195}\text{Pt} = 0.216277$ using the exponential law, $\epsilon^i\text{Pt} = [(^i\text{Pt}/^{195}\text{Pt})_{\text{smp}}/(^i\text{Pt}/^{195}\text{Pt})_{\text{std}} - 1] \times 10^4$;

^b Normalised to $^{196}\text{Pt}/^{195}\text{Pt} = 0.748446$ using the exponential law, $\epsilon^i\text{Pt} = [(^i\text{Pt}/^{195}\text{Pt})_{\text{smp}}/(^i\text{Pt}/^{195}\text{Pt})_{\text{std}} - 1] \times 10^4$; ^c SRM doped with IRMM-010 Pt; Uncertainties of individual measurements are $\pm 2\text{se}$ within-run precisions; uncertainties of reported means are $\pm 2\text{sd}$.

Table S2
 Mass-dependent Pt isotope data for terrestrial
 standard reference materials

Reference Material	$\delta^{198}\text{Pt}$
NIST SRM 129c ^a	0.03 ± 0.05
	-0.05 ± 0.04
	0.01 ± 0.06
	0.05 ± 0.06
	-0.03 ± 0.05
	-0.03 ± 0.06
	0.00 ± 0.06
	0.01 ± 0.06
	0.00 ± 0.05
	0.03 ± 0.05
	-0.04 ± 0.05
	-0.02 ± 0.05
Mean (n = 12)	0.00 ± 0.06
Pt- α	-0.06 ± 0.05
	-0.07 ± 0.05
	-0.07 ± 0.06
	-0.04 ± 0.07
	-0.09 ± 0.06
	-0.07 ± 0.05
	-0.08 ± 0.05
Mean (n = 7)	-0.07 ± 0.03

^a SRM doped with IRMM-010 Pt; All uncertainties are 2 σ .