

Supplementary Table S1. Analytical results of geological standard glass and ground mass using LA-MC-ICP-MS

Sample	$^{206}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{206}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{206}\text{Pb}$ Error (2SE)					
[Solution MC-ICP-MS/TIMS]										
BCR-2G	18.759	0.009	15.629	0.005	38.740	0.021	0.833	0.0003	2.065	0.0006
[LA-MC-ICP-MS]										
BCR-2G-1	18.773	0.006	15.636	0.007	38.751	0.017	0.8329	0.0003	2.0642	0.0007
BCR-2G-2	18.772	0.007	15.617	0.007	38.698	0.018	0.8318	0.0003	2.0613	0.0007
BCR-2G-3	18.758	0.006	15.592	0.007	38.629	0.017	0.8312	0.0002	2.0595	0.0005
BCR-2G-4	18.765	0.006	15.607	0.008	38.670	0.019	0.8317	0.0003	2.0608	0.0007
BCR-2G-5	18.776	0.007	15.598	0.008	38.647	0.019	0.8308	0.0002	2.0584	0.0006
BCR-2G-1	18.766	0.012	15.625	0.010	38.720	0.025	0.8326	0.0001	2.0633	0.0002
BCR-2G-2	18.772	0.010	15.629	0.009	38.735	0.022	0.8326	0.0001	2.0634	0.0002
BCR-2G-3	18.774	0.014	15.632	0.011	38.746	0.028	0.8327	0.0001	2.0638	0.0002
BCR-2G-4	18.761	0.012	15.615	0.011	38.702	0.028	0.8325	0.0001	2.0633	0.0003
BCR-2G-5	18.793	0.009	15.643	0.008	38.766	0.021	0.8324	0.0001	2.0629	0.0001
BCR-2G-1	18.746	0.015	15.606	0.010	38.667	0.027	0.8325	0.0001	2.0627	0.0004
BCR-2G-2	18.768	0.012	15.616	0.008	38.699	0.019	0.8321	0.0002	2.0623	0.0004
BCR-2G-3	18.734	0.007	15.595	0.006	38.647	0.013	0.8325	0.0001	2.0630	0.0001
BCR-2G-4	18.730	0.007	15.592	0.005	38.636	0.014	0.8324	0.0001	2.0628	0.0002
BCR-2G-5	18.741	0.009	15.603	0.006	38.668	0.016	0.8325	0.0001	2.0633	0.0003
BCR-2G-6	18.749	0.007	15.605	0.006	38.665	0.014	0.8323	0.0001	2.0620	0.0001
BCR-2G-7	18.760	0.009	15.612	0.009	38.688	0.019	0.8323	0.0001	2.0622	0.0001
BCR-2G-8	18.765	0.011	15.621	0.009	38.710	0.022	0.8325	0.0001	2.0629	0.0001
Average*	18.761	0.032	15.614	0.031	38.691	0.082	0.8322	0.0030	2.0623	0.0011
[Solution MC-ICP-MS/TIMS]										
JB-2	18.339	0.011	15.557	0.016	38.260	0.055	0.848	0.0004	2.087	0.0018
[LA-MC-ICP-MS]										
JB-2-1	18.334	0.018	15.576	0.014	38.323	0.037	0.8496	0.0001	2.0903	0.0002
JB-2-2	18.311	0.034	15.552	0.028	38.281	0.072	0.8493	0.0001	2.0906	0.0003
JB-2-3	18.284	0.018	15.535	0.014	38.228	0.037	0.8495	0.0001	2.0904	0.0002
JB-2-4	18.334	0.034	15.576	0.028	38.323	0.072	0.8496	0.0001	2.0903	0.0003
JB-2-5	18.287	0.018	15.532	0.015	38.220	0.039	0.8494	0.0001	2.0900	0.0002
JB-2-6	18.355	0.013	15.587	0.010	38.363	0.024	0.8494	0.0001	2.0904	0.0002
JB-2-7	18.346	0.028	15.582	0.023	38.355	0.059	0.8494	0.0001	2.0907	0.0003
JB-2-8	18.335	0.021	15.571	0.017	38.326	0.043	0.8493	0.0001	2.0904	0.0002
JB-2-9	18.297	0.018	15.542	0.015	38.252	0.037	0.8494	0.0001	2.0906	0.0001
JB-2-1	18.298	0.013	15.546	0.011	38.297	0.028	0.8496	0.0001	2.0928	0.0002
JB-2-2	18.353	0.016	15.589	0.013	38.390	0.030	0.8494	0.0002	2.0916	0.0003
JB-2-3	18.360	0.025	15.595	0.021	38.415	0.052	0.8493	0.0001	2.0920	0.0003
JB-2-4	18.320	0.031	15.565	0.026	38.355	0.068	0.8496	0.0002	2.0927	0.0004
JB-2-5	18.333	0.021	15.573	0.017	38.353	0.045	0.8495	0.0001	2.0920	0.0001
JB-2-6	18.329	0.020	15.571	0.016	38.342	0.043	0.8495	0.0001	2.0919	0.0003
JB-2-7	18.298	0.011	15.543	0.010	38.272	0.023	0.8495	0.0001	2.0916	0.0003
JB-2-8	18.312	0.026	15.557	0.022	38.298	0.055	0.8495	0.0001	2.0915	0.0003
JB-2-9	18.342	0.029	15.579	0.024	38.355	0.060	0.8494	0.0001	2.0912	0.0002
JB-2-10	18.304	0.009	15.547	0.007	38.276	0.019	0.8494	0.0001	2.0911	0.0003
JB-2-11	18.322	0.014	15.568	0.012	38.352	0.030	0.8497	0.0001	2.0933	0.0003
JB-2-12	18.316	0.011	15.559	0.008	38.318	0.022	0.8495	0.0001	2.0921	0.0004
JB-2-13	18.303	0.015	15.547	0.013	38.281	0.029	0.8493	0.0001	2.0908	0.0002
JB-2-14	18.284	0.019	15.530	0.015	38.234	0.038	0.8494	0.0001	2.0911	0.0004
JB-2-15	18.300	0.015	15.545	0.012	38.276	0.031	0.8495	0.0001	2.0917	0.0002
JB-2-1	18.374	0.022	15.612	0.018	38.425	0.046	0.8497	0.0001	2.0913	0.0003
JB-2-2	18.320	0.018	15.557	0.013	38.308	0.040	0.8495	0.0001	2.0911	0.0003

Note: errors are given as 2 standard errors (2SE) apart from 2 standard deviations (2SD) for Average* values. Solution ICP-MS/TIMS values are from our own analytical results and compilation of the previous reports.

Supplementary Table S1. Continue

Sample	²⁰⁶ Pb/ ²⁰⁴ Pb Error (2SE)	²⁰⁷ Pb/ ²⁰⁴ Pb Error (2SE)	²⁰⁸ Pb/ ²⁰⁴ Pb Error (2SE)	²⁰⁷ Pb/ ²⁰⁶ Pb Error (2SE)	²⁰⁸ Pb/ ²⁰⁶ Pb Error (2SE)					
[LA-MC-ICP-MS]										
JB-2-3	18.326	0.026	15.569	0.021	38.326	0.052	0.8495	0.0001	2.0912	0.0003
JB-2-4	18.300	0.013	15.542	0.010	38.261	0.025	0.8494	0.0001	2.0911	0.0002
JB-2-5	18.320	0.022	15.564	0.019	38.315	0.047	0.8496	0.0001	2.0915	0.0003
JB-2-6	18.291	0.011	15.538	0.009	38.248	0.022	0.8494	0.0001	2.0911	0.0002
JB-2-7	18.339	0.017	15.579	0.015	38.346	0.036	0.8495	0.0001	2.0910	0.0001
JB-2-8	18.316	0.011	15.555	0.010	38.292	0.024	0.8494	0.0001	2.0911	0.0001
JB-2-9	18.307	0.028	15.550	0.023	38.284	0.059	0.8494	0.0001	2.0913	0.0004
JB-2-10	18.309	0.015	15.550	0.013	38.289	0.029	0.8495	0.0001	2.0914	0.0001
Average*	18.319	0.046	15.561	0.038	38.312	0.103	0.8495	0.0018	2.0913	0.0002
[Solution MC-ICP-MS/TIMS]										
JA-1	18.304	0.013	15.538	0.016	38.256	0.048	0.849	0.0003	2.090	0.0016
[LA-MC-ICP-MS]										
JA-1-1	18.363	0.020	15.589	0.017	38.379	0.042	0.8489	0.0001	2.0900	0.0002
JA-1-2	18.364	0.029	15.585	0.027	38.375	0.065	0.8490	0.0001	2.0905	0.0002
JA-1-3	18.269	0.026	15.505	0.022	38.176	0.055	0.8487	0.0001	2.0896	0.0002
JA-1-4	18.330	0.023	15.558	0.019	38.313	0.047	0.8488	0.0001	2.0901	0.0003
JA-1-5	18.321	0.017	15.550	0.014	38.282	0.034	0.8487	0.0001	2.0897	0.0002
JA-1-1	18.315	0.015	15.552	0.015	38.297	0.035	0.8489	0.0001	2.0904	0.0002
JA-1-2	18.333	0.012	15.563	0.010	38.327	0.025	0.8489	0.0001	2.0905	0.0002
JA-1-3	18.310	0.010	15.544	0.009	38.275	0.021	0.8489	0.0001	2.0904	0.0002
JA-1-4	18.289	0.018	15.528	0.015	38.232	0.039	0.8490	0.0001	2.0904	0.0002
JA-1-5	18.344	0.017	15.577	0.015	38.350	0.038	0.8492	0.0001	2.0905	0.0002
JA-1-6	18.284	0.013	15.524	0.011	38.233	0.026	0.8491	0.0001	2.0912	0.0002
JA-1-7	18.305	0.016	15.542	0.013	38.273	0.032	0.8489	0.0001	2.0904	0.0002
JA-1-8	18.307	0.012	15.547	0.011	38.270	0.027	0.8492	0.0001	2.0905	0.0002
JA-1-9	18.330	0.014	15.567	0.013	38.320	0.031	0.8491	0.0001	2.0902	0.0002
JA-1-10	18.314	0.014	15.554	0.012	38.289	0.029	0.8493	0.0001	2.0908	0.0002
JA-1-1	18.300	0.015	15.533	0.012	38.230	0.033	0.8487	0.0001	2.0892	0.0002
JA-1-2	18.297	0.015	15.529	0.012	38.232	0.030	0.8487	0.0001	2.0895	0.0002
JA-1-3	18.286	0.015	15.520	0.012	38.208	0.029	0.8487	0.0001	2.0894	0.0002
JA-1-4	18.282	0.014	15.519	0.012	38.211	0.028	0.8489	0.0001	2.0897	0.0002
JA-1-5	18.309	0.014	15.542	0.012	38.271	0.031	0.8489	0.0001	2.0903	0.0002
JA-1-6	18.289	0.016	15.525	0.013	38.219	0.032	0.8488	0.0001	2.0897	0.0002
JA-1-7	18.300	0.015	15.531	0.013	38.230	0.028	0.8487	0.0001	2.0894	0.0002
JA-1-8	18.305	0.013	15.538	0.011	38.256	0.028	0.8488	0.0001	2.0899	0.0002
JA-1-9	18.282	0.014	15.518	0.012	38.212	0.030	0.8488	0.0001	2.0900	0.0002
JA-1-10	18.296	0.013	15.533	0.011	38.247	0.027	0.8490	0.0001	2.0905	0.0002
JA-1-S1	18.261	0.034	15.494	0.030	38.152	0.075	0.8483	0.0002	2.0891	0.0005
JA-1-S2	18.317	0.040	15.542	0.033	38.290	0.089	0.8485	0.0002	2.0889	0.0004
JA-1-S3	18.302	0.029	15.525	0.023	38.236	0.057	0.8484	0.0002	2.0894	0.0003
JA-1-S4	18.286	0.040	15.520	0.034	38.220	0.085	0.8488	0.0002	2.0898	0.0006
JA-1-S5	18.264	0.089	15.511	0.075	38.193	0.183	0.8493	0.0003	2.0911	0.0008
Average*	18.305	0.051	15.539	0.045	38.260	0.111	0.8489	0.0011	2.0900	0.0005

Note: errors are given as 2 standard errors (2SE) apart from 2 standard deviations (2SD) for Average* values. Solution ICP-MS/TIMS values are from our own analytical results and compilation of the previous reports.

Supplementary Table S2. Analytical results of bulk rock compositions of Pitcairn lavas using solution-MC-ICP-MS

Sample	$^{206}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{206}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{206}\text{Pb}$ Error (2SE)
[Solution-MC-ICP-MS]					
PC-2	17.849	0.001	15.499	0.001	39.010
PC-15	17.720	0.001	15.494	0.001	39.004
PC-22	18.520	0.001	15.524	0.001	39.088
PC-26	18.543	0.001	15.522	0.001	39.083
PC-31	18.471	0.001	15.516	0.001	39.079
PC-33	17.654	0.001	15.486	0.001	39.033
PC-38	17.777	0.001	15.499	0.001	39.059
PC-40	17.849	0.001	15.498	0.001	39.009
PC-41	17.849	0.001	15.499	0.001	39.012
PC-46	17.802	0.001	15.498	0.001	38.970
PC-48	18.023	0.001	15.510	0.001	39.080
PC-51	18.023	0.001	15.507	0.001	39.068
PC-55	17.803	0.001	15.517	0.001	39.130
PC-73	18.542	0.001	15.523	0.001	39.086
PC-86	17.748	0.001	15.495	0.001	39.005
PC-87A	17.783	0.001	15.498	0.001	39.006
PC-90	17.718	0.001	15.494	0.001	39.005

Note: errors are given as 2 standard errors (2SE)

Supplementary Table S3. Analytical results of groundmass compositions of Pitcairn lavas

Sample	²⁰⁶ Pb/ ²⁰⁴ Pb	Error (2SE)	²⁰⁷ Pb/ ²⁰⁴ Pb	Error (2SE)	²⁰⁸ Pb/ ²⁰⁴ Pb	Error (2SE)	²⁰⁷ Pb/ ²⁰⁶ Pb	Error (2SE)	²⁰⁸ Pb/ ²⁰⁶ Pb	Error (2SE)
[LA-MC-ICP-MS]										
PC-1	18.022	0.056	15.488	0.039	39.033	0.098	0.8602	0.0002	2.1676	0.0005
PC-2	17.846	0.059	15.497	0.052	39.009	0.132	0.8684	0.0006	2.1856	0.0009
PC-3	17.799	0.058	15.529	0.049	39.148	0.124	0.8726	0.0003	2.1997	0.0005
PC-4	17.648	0.064	15.511	0.056	39.082	0.144	0.8788	0.0003	2.2146	0.0005
PC-5	17.945	0.048	15.560	0.037	39.176	0.093	0.8677	0.0003	2.1847	0.0006
PC-6	17.847	0.097	15.503	0.087	39.014	0.218	0.8685	0.0003	2.1860	0.0009
PC-7	17.782	0.036	15.510	0.029	39.075	0.080	0.8723	0.0004	2.1974	0.0010
PC-8	18.027	0.046	15.493	0.037	38.927	0.097	0.8595	0.0003	2.1594	0.0006
PC-10	17.897	0.060	15.576	0.050	39.136	0.126	0.8706	0.0005	2.1888	0.0009
PC-12	17.882	0.066	15.528	0.056	39.080	0.141	0.8683	0.0003	2.1854	0.0006
PC-12-2	17.893	0.068	15.540	0.057	39.099	0.141	0.8684	0.0004	2.1854	0.0006
PC-13	17.827	0.076	15.549	0.064	39.130	0.170	0.8719	0.0004	2.1947	0.0008
PC-14	17.665	0.051	15.393	0.037	38.747	0.095	0.8710	0.0004	2.1922	0.0009
PC-16	17.748	0.034	15.465	0.029	38.927	0.073	0.8715	0.0003	2.1935	0.0005
PC-17	18.536	0.099	15.554	0.085	39.145	0.219	0.8394	0.0006	2.1119	0.0011
PC-19	18.503	0.058	15.535	0.045	39.084	0.120	0.8389	0.0004	2.1121	0.0007
PC-21	18.559	0.158	15.572	0.136	39.227	0.339	0.8391	0.0006	2.1134	0.0011
PC-23	18.478	0.093	15.562	0.078	39.232	0.199	0.8422	0.0003	2.1233	0.0009
PC-25	18.392	0.036	15.494	0.030	39.013	0.077	0.8424	0.0002	2.1212	0.0003
PC-26	18.460	0.113	15.435	0.077	38.879	0.207	0.8377	0.0005	2.1100	0.0009
PC-29	18.449	0.047	15.509	0.040	39.044	0.105	0.8406	0.0003	2.1166	0.0007
PC-42-1	17.711	0.023	15.541	0.046	39.174	0.114	0.8784	0.0022	2.2138	0.0055
PC-42-2	17.643	0.036	15.545	0.034	39.237	0.091	0.8817	0.0007	2.2257	0.0019
PC-44	17.959	0.040	15.546	0.036	39.135	0.094	0.8653	0.0010	2.1787	0.0029
PC-45	17.634	0.057	15.483	0.055	39.055	0.135	0.8781	0.0008	2.2145	0.0022
PC-46-1	17.773	0.037	15.280	0.045	38.369	0.123	0.8613	0.0018	2.1632	0.0051
PC-46-2	17.787	0.044	15.480	0.041	38.939	0.101	0.8705	0.0003	2.1895	0.0005
PC-47	17.779	0.038	15.508	0.031	39.092	0.077	0.8729	0.0008	2.2018	0.0020
PC-49	18.097	0.032	15.481	0.037	38.950	0.096	0.8567	0.0009	2.1571	0.0022
PC-50	17.829	0.029	15.521	0.036	39.092	0.088	0.8705	0.0014	2.1924	0.0038
PC-52	18.039	0.055	15.489	0.052	39.068	0.134	0.8590	0.0010	2.1659	0.0027
PC-53	18.026	0.034	15.506	0.043	39.039	0.105	0.8610	0.0013	2.1677	0.0029
PC-54-1	18.500	0.066	15.517	0.072	39.120	0.186	0.8391	0.0014	2.1155	0.0038
PC-54-2	18.057	0.036	15.564	0.085	39.207	0.191	0.8628	0.0036	2.1729	0.0076
PC-55	17.819	0.027	15.451	0.032	38.918	0.076	0.8671	0.0010	2.1852	0.0025
PC-57-2	18.055	0.051	15.532	0.042	39.139	0.111	0.8602	0.0002	2.1677	0.0006
PC-57-3	18.078	0.029	15.555	0.025	39.179	0.059	0.8604	0.0003	2.1672	0.0005
PC-58	18.001	0.025	15.486	0.021	39.015	0.054	0.8603	0.0002	2.1674	0.0004
PC-59	18.465	0.027	15.542	0.025	39.188	0.056	0.8420	0.0002	2.1222	0.0004
PC-61	18.736	0.079	15.660	0.063	39.380	0.161	0.8358	0.0010	2.1036	0.0027
PC-62	18.476	0.070	15.462	0.058	38.959	0.146	0.8370	0.0004	2.1083	0.0009
PC-63	18.150	0.023	15.562	0.022	39.206	0.052	0.8574	0.0002	2.1601	0.0003
PC-64	18.479	0.062	15.566	0.052	39.198	0.133	0.8424	0.0003	2.1212	0.0004
PC-77	18.553	0.021	15.532	0.018	39.106	0.043	0.8371	0.0001	2.1077	0.0002
PC-78	18.554	0.015	15.532	0.012	39.117	0.033	0.8371	0.0001	2.1082	0.0002
PC-79	17.773	0.004	15.497	0.004	39.074	0.008	0.8719	0.0001	2.1985	0.0001
PC-80	17.799	0.009	15.492	0.008	39.061	0.017	0.8704	0.0001	2.1945	0.0003
PC-81	18.559	0.031	15.539	0.026	39.128	0.067	0.8373	0.0002	2.1082	0.0002
PC-82	18.315	0.018	15.518	0.013	39.095	0.036	0.8471	0.0001	2.1341	0.0003
PC-85	17.646	0.016	15.482	0.013	39.061	0.034	0.8774	0.0001	2.2136	0.0002
PC-86	17.735	0.011	15.490	0.009	38.997	0.024	0.8734	0.0001	2.1988	0.0002
PC-87-1	17.773	0.013	15.491	0.011	38.991	0.027	0.8716	0.0001	2.1939	0.0002
PC-87-2	17.777	0.015	15.493	0.012	38.993	0.030	0.8715	0.0001	2.1935	0.0003
PC-88	17.778	0.015	15.488	0.013	39.026	0.033	0.8712	0.0001	2.1952	0.0002

Note: errors are given as 2 standard errors (2SE)

Supplementary Table S4. Analytical results of olivine melt inclusion compositions from Pitcairn lavas

Sample	$^{206}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{206}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{206}\text{Pb}$ Error (2SE)					
[LA-MC-ICP-MS]										
PC38-1	17.918	0.017	15.457	0.019	38.884	0.060	0.8627	0.0003	2.1702	0.0014
PC38-2	17.885	0.069	15.504	0.060	39.043	0.153	0.8669	0.0002	2.1830	0.0006
PC38-3	17.308	0.311	15.099	0.255	38.070	0.669	0.8725	0.0011	2.1996	0.0018
PC38-7	17.697	0.056	15.426	0.050	38.858	0.127	0.8717	0.0003	2.1958	0.0006
PC38-8	17.696	0.089	15.436	0.074	38.878	0.196	0.8723	0.0005	2.1970	0.0010
PC38-9	17.726	0.100	15.448	0.085	38.906	0.214	0.8715	0.0004	2.1949	0.0009
PC38-11	17.449	0.200	15.203	0.174	38.291	0.442	0.8713	0.0009	2.1946	0.0020
PC38-12	17.793	0.181	15.497	0.156	39.048	0.400	0.8710	0.0007	2.1947	0.0015
PC38-13	17.784	0.080	15.496	0.069	39.038	0.175	0.8714	0.0004	2.1953	0.0011
PC38-16	18.366	0.350	15.888	0.292	39.879	0.740	0.8651	0.0019	2.1715	0.0037
PC38-16-2	17.211	0.160	15.005	0.133	37.751	0.323	0.8719	0.0015	2.1936	0.0048
PC38-17	17.696	0.128	15.416	0.113	38.810	0.295	0.8712	0.0006	2.1932	0.0025
PC38-19	18.251	0.056	15.486	0.047	38.953	0.120	0.8485	0.0004	2.1342	0.0007
PC38-20-1	17.607	0.212	15.369	0.211	38.694	0.517	0.8730	0.0033	2.1978	0.0027
PC38-20-2	17.683	0.085	15.424	0.076	38.864	0.190	0.8723	0.0006	2.1977	0.0011
PC38-21	17.666	0.050	15.518	0.041	39.106	0.107	0.8785	0.0003	2.2138	0.0007
PC38-22	17.678	0.119	15.428	0.105	38.817	0.268	0.8727	0.0005	2.1957	0.0012
PC38-23	17.680	0.080	15.418	0.089	38.761	0.183	0.8721	0.0013	2.1924	0.0062
PC38-24-1	17.777	0.169	15.492	0.143	39.025	0.381	0.8716	0.0008	2.1953	0.0020
PC38-24-2	17.735	0.103	15.458	0.088	38.928	0.242	0.8717	0.0009	2.1950	0.0024
PC38-25	17.560	0.054	15.456	0.047	38.952	0.122	0.8803	0.0003	2.2184	0.0005
PC38-26	17.851	0.052	15.539	0.048	39.142	0.121	0.8704	0.0004	2.1926	0.0010
PC38-42	17.859	0.139	15.555	0.124	39.206	0.305	0.8710	0.0008	2.1954	0.0015
PC38-43	17.727	0.169	15.456	0.152	38.923	0.385	0.8719	0.0009	2.1957	0.0022
PC38-44	17.703	0.076	15.429	0.066	38.860	0.162	0.8715	0.0007	2.1951	0.0029
PC38-45	17.829	0.090	15.603	0.070	39.301	0.185	0.8752	0.0015	2.2044	0.0021
PC38-48	17.793	0.064	15.514	0.052	39.094	0.247	0.8719	0.0014	2.1971	0.0066
PC38-49-1	17.337	0.096	15.116	0.084	38.036	0.210	0.8719	0.0029	2.1939	0.0039
PC38-49-2	17.699	0.077	15.417	0.065	38.852	0.160	0.8711	0.0005	2.1953	0.0010
PC38-49-3	17.674	0.195	15.389	0.186	38.805	0.430	0.8707	0.0014	2.1956	0.0035
PC38-49-4	17.829	0.107	15.555	0.131	39.181	0.262	0.8725	0.002	2.1977	0.0013
PC38-49-5	17.793	0.151	15.515	0.136	39.067	0.333	0.8720	0.0013	2.1957	0.0021
PC38-50	17.764	0.075	15.485	0.065	39.005	0.163	0.8717	0.0004	2.1958	0.0009
PC40-1	17.720	0.155	15.404	0.136	38.796	0.338	0.8693	0.0012	2.1894	0.0014
PC40-2	17.678	0.241	15.367	0.210	38.728	0.524	0.8693	0.0003	2.1908	0.0018
PC40-3-2	17.672	0.095	15.365	0.086	38.700	0.222	0.8695	0.0004	2.1902	0.0011
PC40-3-3	17.807	0.066	15.489	0.059	38.993	0.145	0.8699	0.0003	2.1900	0.0006
PC40-7-1	18.270	0.138	15.636	0.115	39.169	0.308	0.8558	0.0005	2.1438	0.0012
PC40-7-2	17.756	0.337	15.374	0.288	38.745	0.741	0.8659	0.0009	2.1820	0.0015
PC40-8	17.968	0.248	15.632	0.217	39.343	0.555	0.8700	0.0006	2.1896	0.0014
PC40-9	17.781	0.020	15.472	0.015	38.984	0.037	0.8701	0.0002	2.1925	0.0007
PC40-11	17.643	0.188	15.355	0.164	38.669	0.368	0.8703	0.0004	2.1919	0.0030
PC40-13	17.746	0.191	15.408	0.162	38.809	0.394	0.8682	0.0007	2.1871	0.0019
PC40-15	17.616	0.369	15.282	0.309	38.479	0.772	0.8675	0.0011	2.1844	0.0024
PC40-17-1	17.791	0.026	15.445	0.023	38.865	0.058	0.8681	0.0002	2.1845	0.0005
PC40-17-2	17.947	0.086	15.502	0.070	38.941	0.182	0.8637	0.0006	2.1698	0.0012
PC40-17-3	17.695	0.141	15.359	0.117	38.671	0.306	0.8679	0.0010	2.1854	0.0023
PC40-20	17.719	0.129	15.382	0.107	38.712	0.279	0.8681	0.0010	2.1848	0.0033
PC40-21	17.954	0.215	15.495	0.178	38.903	0.470	0.8630	0.0010	2.1668	0.0016
PC40-25-1	17.607	0.014	15.433	0.010	38.927	0.017	0.8765	0.0002	2.2109	0.0009
PC40-25-2	17.585	0.012	15.436	0.010	38.927	0.023	0.8778	0.0001	2.2137	0.0003
PC40-27-1	17.990	0.275	15.535	0.246	38.948	0.625	0.8636	0.0011	2.1650	0.0043
PC40-27-2	18.032	0.145	15.569	0.116	38.974	0.313	0.8634	0.0009	2.1614	0.0014
PC40-29	17.839	0.029	15.464	0.026	38.928	0.065	0.8669	0.0003	2.1822	0.0009

Note: errors are given as 2 standard errors (2SE)

Supplementary Table S4. Continue

Sample	$^{206}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{204}\text{Pb}$ Error (2SE)	$^{207}\text{Pb}/^{206}\text{Pb}$ Error (2SE)	$^{208}\text{Pb}/^{206}\text{Pb}$ Error (2SE)
[LA-MC-ICP-MS]					
PC40-35	17.685	0.263	15.359	0.234	38.667
PC40-36	17.827	0.205	15.451	0.176	38.928
PC40-37	17.743	0.060	15.390	0.049	38.754
PC40-38	17.599	0.143	15.265	0.120	38.422
PC86-1	17.478	0.049	15.286	0.049	38.452
PC86-5	17.964	0.043	15.522	0.037	38.983
PC86-13	17.780	0.028	15.526	0.024	39.076
PC86-15-1	17.735	0.295	15.426	0.253	38.740
PC86-15-2	17.751	0.024	15.500	0.022	39.005
PC86-17	17.778	0.061	15.449	0.054	38.855
PC86-19	17.760	0.015	15.507	0.013	39.034
PC86-20	17.787	0.021	15.488	0.017	38.964
PC87-3	17.866	0.483	15.564	0.420	39.133
PC87-4	18.254	0.043	15.496	0.037	38.925

Note: errors are given as 2 standard errors (2SE)