Sample Number	^{238}U (ppb)		^{232}Th (ppt)		^{230}Th / ^{232}Th (atomic x10^{-6})		$d^{234}U$* (measured)		^{230}Th / ^{238}U (activity)		^{230}Th Age (yr) (uncorrected)		^{230}Th Age (yr) (corrected)		$d^{234}U_{Initial}$** (corrected)		^{230}Th Age (yr BP)*** (corrected)	
AGEG-2016-21	2415.6	±3.9	1428	±32	282	±12	138.2	±2.0	0.0101	±0.0004	972	±37	**957**	**±38**	138.6	±2.0	**889**	**±38**
AGEG-2016-48	2598.7	±4.2	2754	±56	148	±4	143.8	±2.1	0.0095	±0.0002	914	±17	**887**	**±26**	144.1	±2.1	**819**	**±26**
AGEG-2016-39	2529.9	±3.1	5472	±110	63	±2	144.2	±1.6	0.0082	±0.0003	787	±25	**732**	**±46**	144.5	±1.6	**664**	**±46**
AGEG-2016-55	2249.1	±3.1	1160	±24	198	±7	144.9	±1.7	0.0062	±0.0002	590	±16	**577**	**±19**	145.1	±1.7	**509**	**±19**
AGEG-2016-58	2541.6	±3.4	1446	±33	160	±11	146.9	±1.8	0.0055	±0.0004	525	±35	**510**	**±37**	147.1	±1.8	**442**	**±37**
AGEG-2016-22	2545.4	±3.5	271	±14	825	±67	142.4	±1.7	0.0053	±0.0003	510	±31	**507**	**±31**	142.6	±1.7	**439**	**±31**
AGEG-2016-38	2913.9	±5.4	334	±19	768	±68	143.6	±2.1	0.0053	±0.0004	510	±35	**507**	**±35**	143.8	±2.1	**439**	**±35**
AGEG-2016-20	2409.6	±3.5	717	±19	290	±19	144.7	±2.0	0.0052	±0.0003	500	±30	**492**	**±30**	144.9	±2.0	**424**	**±30**
CORAL-1	2134	±3.0	64	±5	2798	±242	145	±2.0	0.0051	±0.0002	483	±15	483	±15	145	±2.0	**418**	**±11**
AGEG-2016-24	2353.2	±3.6	423	±13	465	±28	142.7	±1.8	0.0051	±0.0003	485	±25	**481**	**±25**	142.9	±1.8	**413**	**±25**
CORAL-3	2174	±3.0	50	±4	3505	±281	144.1	±2.5	0.0049	±0.0001	468	±11	467	±11	144	±3.0	**402**	**±15**
AGEG-2016-25	2395.1	±4.1	241	±18	777	±95	141.8	±2.0	0.0047	±0.0005	454	±43	**452**	**±44**	142.0	±2.0	**384**	**±44**
AGEG-2016-13	2459.3	±3.1	262	±19	735	±91	145.1	±1.4	0.0047	±0.0005	453	±45	**450**	**±45**	145.3	±1.4	**382**	**±45**
AGEG-2016-40	2827.8	±4.3	219	±14	987	±90	144.1	±1.8	0.0046	±0.0003	444	±28	**442**	**±28**	144.2	±1.8	**374**	**±28**
AGEG-2016-45	2231.8	±3.6	283	±12	597	±44	144.3	±2.0	0.0046	±0.0003	439	±27	**435**	**±27**	144.4	±2.0	**367**	**±27**
AGEG-2016-33	2431.2	±3.8	89	±12	2066	±304	147.5	±1.9	0.0046	±0.0003	434	±28	**434**	**±28**	147.7	±1.9	**366**	**±28**
AGEG-2016-44	2268.5	±3.5	433	±16	392	±34	144.6	±2.0	0.0045	±0.0004	433	±34	**428**	**±34**	144.8	±2.0	**360**	**±34**
AGEG-2016-27	2463.7	±4.1	374	±14	491	±37	144.0	±1.9	0.0045	±0.0003	432	±28	**428**	**±29**	144.1	±1.9	**360**	**±29**
AGEG-2016-19	2397.9	±4.1	215	±13	818	±79	144.2	±2.0	0.0044	±0.0003	424	±31	**422**	**±31**	144.4	±2.0	**354**	**±31**
AGEG-2016-7	2574.5	±2.6	663	±19	261	±28	143.3	±1.2	0.0041	±0.0004	390	±40	**383**	**±40**	143.5	±1.2	**315**	**±40**

Supplemental Table 1. ^{230} Th/U dating results. Error is 2σ.

Table Notes:
U decay constants: $\lambda_{238} = 1.55125 \times 10^{-10}$ (Jaffey et al. 1971) and $\lambda_{234} = 2.82206 \times 10^{-6}$ (Cheng et al. 2013).
Th decay constant: $\lambda_{230} = 9.1705 \times 10^{-6}$ (Cheng et al. 2013).
*$\delta^{234}U = ([^{234}U/^{238}U]_{activity} - 1) \times 1000$. ** $\delta^{234}U_{initial}$ was calculated based on ^{230}Th age (T), i.e., $\delta^{234}U_{initial} = \delta^{234}U_{measured} \times e^{\lambda 234 \times T}$.
Corrected ^{230}Th ages assume the initial $^{230}Th/^{232}Th$ atomic ratio of $4.4 \pm 2.2 \times 10^{-6}$. Those are the values for a material at secular equilibrium, with the bulk earth $^{232}Th/^{238}U$ value of 3.8. The errors are arbitrarily

assumed to be 50%.
***B.P. stands for "Before Present" where "Present" is defined as the year AD 1950.