

SUPPLEMENTARY MATERIAL table 1: U-050 individual isotopic data (April 2023)

April 2023	$^{234}\text{U}/^{238}\text{U}$		$^{235}\text{U}/^{238}\text{U}$		$^{230}\text{Th}/^{234}\text{U}$	
	median RSF corrected	unc.	median RSF corrected	unc.	median RSF corrected	unc.
p1	2,86E-04	1,22E-05	5,24E-02	4,10E-04		
p2	3,10E-04	1,29E-05	5,24E-02	2,79E-04		
p3			5,23E-02	1,43E-04		
p4			5,23E-02	7,52E-04		
p5			5,28E-02	9,43E-05	1,88E-04	3,97E-05
p6	3,04E-04	1,17E-05	5,27E-02	2,44E-04		
p7	3,20E-04	1,56E-05	5,23E-02	2,41E-04		
p8	3,01E-04	6,46E-06	5,27E-02	5,43E-04	2,26E-04	2,39E-05
p9	3,04E-04	7,70E-06	5,26E-02	2,01E-04		
p10	3,03E-04	5,86E-06	5,25E-02	1,18E-04		
p11	2,91E-04	5,95E-06	5,25E-02	2,45E-04	1,80E-04	2,84E-05
p12	2,99E-04	9,65E-06	5,28E-02	7,38E-05	1,55E-04	2,99E-05
p13	2,94E-04	4,24E-06	5,27E-02	5,86E-05	1,87E-04	3,59E-05
p14	2,97E-04	9,08E-06	5,24E-02	1,77E-04	2,12E-04	2,20E-05
p15	2,86E-04	6,06E-06	5,24E-02	1,77E-04	1,87E-04	1,72E-05
p16	2,99E-04	7,28E-06	5,26E-02	9,80E-05	2,16E-04	1,50E-05
p17	2,98E-04	1,21E-05	5,25E-02	1,24E-04		
p18						
p19	2,97E-04	5,82E-06	5,26E-02	1,71E-04	1,70E-04	3,93E-05
p20			5,28E-02	2,48E-04		
p21	3,00E-04	7,02E-06	5,25E-02	3,33E-04		
p22			5,29E-02	1,65E-04		
p23	2,97E-04	7,15E-06	5,28E-02	5,74E-05		
p24			5,23E-02	5,44E-04		
p25	3,10E-04	1,08E-05	5,28E-02	1,17E-04		
p26	2,97E-04	1,23E-05	5,27E-02	8,95E-05		
p27	2,84E-04	1,03E-05	5,27E-02	5,64E-05		
p28	2,92E-04	5,41E-06	5,28E-02	5,90E-05		
p29	3,01E-04	9,91E-06	5,25E-02	2,20E-04	2,45E-04	4,43E-05
p30	2,98E-04	6,43E-06	5,24E-02	2,23E-04	2,10E-04	3,04E-05
p31	3,02E-04	6,53E-06	5,27E-02	7,72E-05	2,10E-04	5,08E-05
p32	3,00E-04	5,58E-06	5,25E-02	1,67E-04	2,26E-04	3,23E-05

SUPPLEMENTARY MATERIAL table 2: U-850 individual isotopic data (April and June 2023)

	Number of ²³⁴ U ions integrated	RI ²³⁴ U/ ²³⁸ U		RI ²³⁵ U/ ²³⁸ U		²³⁰ Th/ ²³⁴ U	
		median RSF corrected	unc.	median RSF corrected	unc.	median RSF corrected	unc.
p1	105 943						
p2	135 370						
p3	664 036						
p4	243 268						
p5	83 022						
p6	2 952 059			6.145	0.021	1.87E-04	3.85E-05
p7	1 537 410						
p8	31 541						
p9	-						
p10	-						
p11	3 574 998			6.193	0.039	1.43E-04	3.13E-05
p12	2 384 258			6.249	0.053		
p13	1 209 911			6.238	0.061		
p14	505 507			6.295	0.074		
p15	940 885			6.217	0.047		
p16	4 352 017			5.908	0.085	1.68E-04	4.37E-05
p17	3 511 826			6.174	0.027	1.59E-04	2.63E-05
p18	1 053 138			6.235	0.071		
p19	1 605 648			6.135	0.048		
p20	5 564 858			6.187	0.046	1.87E-04	3.83E-05
p21	758 547			6.145	0.101	1.27E-04	1.54E-05
p22	2 088 027			6.222	0.031	2.05E-04	3.80E-05
p23	1 126 909						
p24	2 031 188			6.209	0.068	1.59E-04	4.27E-05
p25	1 367 541			6.175	0.115		
p26	4 185 335					1.46E-04	2.64E-05
p27	1 434 785			6.289	0.082	1.48E-04	3.95E-05
p28	463 456						
p29	1 847 238			6.308	0.051	2.06E-04	4.07E-05
p30	939 207						
p31	-						
p32	4 626 990	4.60E-02	4.89E-04	6.209	0.022	1.87E-04	1.36E-05
p33	-						
p34	3 038 698	4.46E-02	1.78E-03	6.098	0.042	1.82E-04	1.94E-05
p35	2 009 310	4.61E-02	8.27E-04	6.172	0.032	1.72E-04	2.18E-05
p36	2 157 895	4.57E-02	8.50E-04	6.226	0.030	1.83E-04	2.16E-05
p37	43 649						
p38	-						
p39	186 823						
p40	99 333						
p41	2 379 882	4.54E-02	9.89E-04	6.173	0.058	1.92E-04	3.73E-05

	Number of ²³⁴ U ions integrated	RI ²³⁴ U/ ²³⁸ U median RSF corrected	unc.	RI ²³⁵ U/ ²³⁸ U median RSF corrected	unc.	²³⁰ Th/ ²³⁴ U median RSF corrected	unc.
p42	1 406 203	4.75E-02	1.03E-03	6.302	0.061	1.84E-04	1.68E-05
p43	1 598 639	4.50E-02	1.20E-03	6.205	0.074		
p44	2 494 837	4.73E-02	1.62E-03	6.291	0.078		
p45	899 867	4.67E-02	9.79E-04	6.214	0.031		
p46	1 969 722	4.39E-02	1.40E-03	6.082	0.053	2.33E-04	4.44E-05
p47	1 316 420	4.58E-02	1.40E-03	6.189	0.080	1.84E-04	3.24E-05
p48	1 743 602	4.64E-02	8.35E-04	6.213	0.037	1.99E-04	4.16E-05
p49	1 849 011	4.65E-02	8.91E-04	6.194	0.042		
p50	959 292	4.65E-02	1.16E-03	6.155	0.040		
p51	1 061 835	4.69E-02	9.66E-04	6.143	0.039		
p52	3 093 114	4.60E-02	1.31E-03	6.203	0.028	1.95E-04	4.51E-05
p53	1 531 832	4.72E-02	5.58E-04	6.220	0.025		
p54	2 258 683	4.68E-02	1.09E-03	6.336	0.050	3.17E-04	3.09E-05
p55	1 562 344	4.67E-02	7.74E-04	6.219	0.020	1.74E-04	2.07E-05
p56	875 176	4.79E-02	1.29E-03	6.209	0.045	1.94E-04	3.37E-05
p57	1 007 898	4.70E-02	7.72E-04	6.205	0.046		
p58	2 460 284	4.64E-02	8.02E-04	6.171	0.035	2.08E-04	2.83E-05
p59	1 598 533	4.68E-02	5.92E-04	6.210	0.016		
p60	2 093 502	4.68E-02	7.71E-04	6.187	0.025	2.36E-04	3.39E-05

SUPPLEMENTARY MATERIAL table 3: U-900 individual isotopic data (April and June 2023)

	Number of ²³⁴ U ions integrated	RI ²³⁴ U/ ²³⁸ U		RI ²³⁵ U/ ²³⁸ U		²³⁰ Th/ ²³⁴ U	
		median RSF corrected	unc.	median RSF corrected	unc.	median RSF corrected	unc.
p1	87 679	9.22E-02	4.33E-03				
p2	160 710	8.49E-02	1.94E-03	1.03E+01	1.37E-01	1.88E-04	1.19E-05
p3	35 668 294	8.16E-02	2.47E-03	1.03E+01	2.00E-01	1.76E-04	1.47E-05
p4	30 240 699	8.13E-02	2.52E-03	1.02E+01	1.34E-01	1.58E-04	1.25E-05
p5	15 167 871	8.78E-02	8.19E-04	1.04E+01	3.10E-02	1.99E-04	1.33E-05
p6	17 307 357	8.74E-02	1.80E-03	1.05E+01	5.48E-02	1.56E-04	1.23E-05
p7	29 210 604	7.86E-02	2.50E-03	1.03E+01	1.44E-01	1.90E-04	2.08E-05
p8	28 860 579	8.40E-02	3.28E-03			1.78E-04	2.52E-05
p9	12 953 906	8.76E-02	3.73E-03			1.70E-04	1.40E-05
p10	14 465 358					1.80E-04	2.35E-05
p11	14 882 589	8.21E-02	2.57E-03			2.03E-04	2.20E-05
p12	6 768 112	8.40E-02	1.82E-03	1.04E+01	6.93E-02	1.90E-04	1.21E-05
p13	41 328 120						
p14	10 249 033	8.56E-02	2.62E-03			1.82E-04	1.55E-05
p15	34 143 183						
p16	14 997 137					2.81E-04	4.76E-05
p17	8 118 938	9.08E-02	1.61E-03	1.07E+01	1.42E-01	1.61E-04	2.50E-05
p18	1 569 835					2.07E-04	3.64E-05
p19	10 994 839	8.68E-02	1.55E-03	1.05E+01	7.25E-02	1.69E-04	2.33E-05
p20	16 804 524	8.23E-02	1.95E-03	1.08E+01	9.28E-02	1.83E-04	3.48E-05
p21	4 166 900	8.59E-02	2.52E-03	1.03E+01	1.10E-01	1.85E-04	2.46E-05
p22	17 675 124	8.36E-02	3.33E-03			1.46E-04	3.01E-05
p23	28 304 755	8.05E-02	4.02E-03			2.13E-04	3.83E-05
p24	21 826 057	8.15E-02	2.06E-03	1.03E+01	1.19E-01	1.97E-04	2.80E-05
p25	20 450 821	8.23E-02	2.74E-03	1.04E+01	1.25E-01	1.93E-04	3.30E-05
p26	10 590 930						
p27	7 845 510	8.33E-02	2.04E-03	1.04E+01	8.86E-02	1.74E-04	2.45E-05
p28	13 313 542			1.03E+01	1.85E-01	1.92E-04	3.63E-05
p29	19 778 959					1.89E-04	3.13E-05
p30	12 245 321						
p31	248 863	8.63E-02	1.72E-03	1.04E+01	1.30E-01	1.75E-04	2.44E-05
p32	37 376 405	8.67E-02	1.83E-03	1.08E+01	2.00E-01		
p33	11 941 203	8.87E-02	1.28E-03	1.07E+01	1.17E-01		
p34	6 105 127	8.93E-02	4.00E-04	1.05E+01	5.97E-02	1.62E-04	3.24E-05
p35	57 467 384	8.78E-02	8.33E-04	1.05E+01	1.33E-01	2.04E-04	4.77E-05
p36	10 297 142	8.75E-02	6.21E-04	1.07E+01	6.58E-02		
p37	13 444 802	8.76E-02	1.03E-03	1.03E+01	1.96E-01	1.90E-04	4.50E-05
p38	17 718 476	8.75E-02	9.12E-04	1.03E+01	1.86E-01	2.10E-04	4.83E-05
p39	12 815 410						0.00E+00
p40	19 838	8.96E-02	1.36E-03			1.70E-04	3.98E-05
p41	23 888 026	8.85E-02	1.20E-03			1.92E-04	4.67E-05
p42	18 691 225	8.86E-02	1.43E-03	1.07E+01	1.28E-01		

	Number of ²³⁴ U ions integrated	RI ²³⁴ U/ ²³⁸ U		RI ²³⁵ U/ ²³⁸ U		²³⁰ Th/ ²³⁴ U	
		median RSF corrected	unc.	median RSF corrected	unc.	median RSF corrected	unc.
p43	12 142 689	8.54E-02	1.47E-03			1.64E-04	3.94E-05
p44	17 154 238	8.84E-02	1.69E-03				
p45	24 020 169						
p46	96 678	8.67E-02	1.60E-03	1.08E+01	2.10E-01		
p47	10 618 461	8.93E-02	1.96E-03			1.68E-04	3.79E-05
p48	5 576 674						
p49	504 712	8.58E-02	1.81E-03				
p50	8 169 051	9.04E-02	3.66E-03				
p51	2 044 492	8.64E-02	2.34E-03			2.04E-04	4.37E-05
p52	4 667 220	9.15E-02	2.71E-03				
p53	3 999 335	9.02E-02	3.17E-03				
p54	1 413 406	8.93E-02	2.00E-03			2.02E-04	4.27E-05
p55	1 622 426	8.75E-02	1.73E-03				
p56	6 761 028	9.13E-02	3.18E-03				
p57	1 134 351	8.89E-02	2.78E-03			2.23E-04	4.47E-05
p58	2 143 829	8.63E-02	2.62E-03				
p59	6 434 326	8.95E-02	2.05E-03			1.51E-04	2.86E-05
p60	11 203 285						
p61	1 690 726	8.92E-02	1.40E-03			1.58E-04	3.90E-05
p62	11 598 187	9.04E-02	8.05E-04	1.06E+01	1.18E-01	1.76E-04	3.40E-05
p63	5 974 368	8.97E-02	3.46E-03				
p64	1 794 456	9.42E-02	1.69E-03	1.13E+01	2.13E-01		
p65	8 203 850	9.21E-02	2.56E-03				
p66	898 200	9.02E-02	1.63E-03			1.40E-04	2.90E-05
p67	4 647 726						