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TABLE 4. SHRIMP U-PB ISOTOPIC DATA FOR THE ERMELO PYROCLASTICS

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*		Apparent Age† (Ma) ± 1s
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	
1.1	269	148	0.12	0.0510 ± 0.0011	0.3806 ± 0.0099	0.0541 ± 0.0006	0.0509 ± 0.0011	0.320.2 ± 7.0	
2.1	200	109	0.18	0.0517 ± 0.0012	0.3896 ± 0.0105	0.0546 ± 0.0007	0.0516 ± 0.0012	0.324.5 ± 7.0	
3.1	481	237	0.03	0.0484 ± 0.0011	0.3555 ± 0.0088	0.0533 ± 0.0005	0.0483 ± 0.0011	0.304.4 ± 6.6	
4.1	210	142	0.18	0.0511 ± 0.0011	0.3850 ± 0.0102	0.0547 ± 0.0007	0.0510 ± 0.0011	0.320.4 ± 7.0	
5.1	301	174	0.13	0.0517 ± 0.0012	0.3866 ± 0.0099	0.0542 ± 0.0006	0.0517 ± 0.0012	0.324.8 ± 7.0	
6.1	229	141	0.04	0.0509 ± 0.0011	0.3749 ± 0.0099	0.0534 ± 0.0006	0.0509 ± 0.0011	0.320.1 ± 6.9	
7.1	195	103	0.19	0.0514 ± 0.0011	0.3877 ± 0.0104	0.0548 ± 0.0007	0.0513 ± 0.0011	0.322.2 ± 7.0	
8.1	250	136	0.10	0.0518 ± 0.0012	0.3851 ± 0.0101	0.0539 ± 0.0006	0.0517 ± 0.0012	0.325.1 ± 7.1	
9.1	288	137	0.10	0.0516 ± 0.0012	0.3832 ± 0.0099	0.0539 ± 0.0006	0.0515 ± 0.0011	0.323.8 ± 7.0	
10	130	63	0.31	0.0527 ± 0.0012	0.4061 ± 0.0117	0.0559 ± 0.0009	0.0526 ± 0.0012	0.330.2 ± 7.2	
11	728	328	0.03	0.0516 ± 0.0012	0.3793 ± 0.0091	0.0533 ± 0.0004	0.0516 ± 0.0012	0.324.2 ± 7.0	
12	290	144	0.02	0.0509 ± 0.0011	0.3737 ± 0.0096	0.0532 ± 0.0006	0.0509 ± 0.0011	0.320.1 ± 6.9	
13	293	166	0.09	0.0506 ± 0.0011	0.3758 ± 0.0097	0.0539 ± 0.0006	0.0506 ± 0.0011	0.318.0 ± 6.9	
14	479	233	-0.01	0.0506 ± 0.0011	0.3694 ± 0.0091	0.0529 ± 0.0004	0.0506 ± 0.0011	0.318.3 ± 6.9	
15	246	137	-0.02	0.0511 ± 0.0011	0.3724 ± 0.0099	0.0528 ± 0.0006	0.0512 ± 0.0011	0.321.6 ± 7.0	
16	265	151	0.00	0.0511 ± 0.0011	0.3735 ± 0.0100	0.0531 ± 0.0007	0.0511 ± 0.0011	0.321.0 ± 7.0	
17	264	130	0.15	0.0518 ± 0.0012	0.3884 ± 0.0101	0.0544 ± 0.0006	0.0517 ± 0.0012	0.324.9 ± 7.1	
18	193	93	0.12	0.0508 ± 0.0011	0.3794 ± 0.0102	0.0541 ± 0.0007	0.0508 ± 0.0011	0.319.3 ± 6.9	
19	215	123	0.20	0.0520 ± 0.0012	0.3936 ± 0.0104	0.0549 ± 0.0006	0.0519 ± 0.0012	0.326.2 ± 7.1	
20	297	150	0.13	0.0511 ± 0.0013	0.3815 ± 0.0108	0.0542 ± 0.0006	0.0510 ± 0.0013	0.320.8 ± 7.7	
21	482	482	0.04	0.0504 ± 0.0013	0.3713 ± 0.0101	0.0534 ± 0.0005	0.0504 ± 0.0013	0.317.1 ± 7.7	
22	134	68	-0.10	0.0526 ± 0.0013	0.3778 ± 0.0118	0.0521 ± 0.0009	0.0527 ± 0.0013	0.330.8 ± 8.0	
23	370	287	-0.07	0.0495 ± 0.0012	0.3575 ± 0.0102	0.0524 ± 0.0006	0.0496 ± 0.0012	0.311.8 ± 7.5	
24	168	104	0.23	0.0528 ± 0.0013	0.4014 ± 0.0121	0.0551 ± 0.0008	0.0527 ± 0.0013	0.331.0 ± 8.0	
25	531	295	0.02	0.0512 ± 0.0013	0.3758 ± 0.0102	0.0532 ± 0.0005	0.0512 ± 0.0013	0.321.9 ± 7.8	
26	270	152	0.12	0.0510 ± 0.0013	0.3802 ± 0.0109	0.0541 ± 0.0006	0.0509 ± 0.0013	0.320.3 ± 7.7	
27	418	329	0.02	0.0490 ± 0.0012	0.3597 ± 0.0101	0.0533 ± 0.0006	0.0490 ± 0.0012	0.308.3 ± 7.5	
28	291	219	0.15	0.0496 ± 0.0012	0.3717 ± 0.0105	0.0544 ± 0.0006	0.0495 ± 0.0012	0.311.5 ± 7.5	
29	266	191	0.09	0.0499 ± 0.0012	0.3704 ± 0.0106	0.0539 ± 0.0006	0.0498 ± 0.0012	0.313.4 ± 7.6	
30	236	101	0.17	0.0516 ± 0.0013	0.3883 ± 0.0112	0.0545 ± 0.0007	0.0516 ± 0.0013	0.324.1 ± 7.8	
31	421	196	0.05	0.0512 ± 0.0013	0.3770 ± 0.0104	0.0535 ± 0.0005	0.0511 ± 0.0013	0.321.5 ± 7.8	
32	483	289	0.02	0.0518 ± 0.0013	0.3799 ± 0.0103	0.0532 ± 0.0005	0.0518 ± 0.0013	0.325.6 ± 7.9	
33	303	156	0.17	0.0506 ± 0.0013	0.3811 ± 0.0110	0.0546 ± 0.0007	0.0506 ± 0.0013	0.317.9 ± 7.7	
34	451	220	0.17	0.0511 ± 0.0013	0.3842 ± 0.0108	0.0545 ± 0.0005	0.0510 ± 0.0013	0.320.8 ± 7.7	
35	299	159	0.02	0.0512 ± 0.0013	0.3756 ± 0.0106	0.0532 ± 0.0006	0.0512 ± 0.0013	0.322.0 ± 7.8	
36	286	216	0.21	0.0504 ± 0.0013	0.3819 ± 0.0108	0.0549 ± 0.0006	0.0503 ± 0.0012	0.316.5 ± 7.6	
37	167	92	0.22	0.0523 ± 0.0013	0.3967 ± 0.0119	0.0550 ± 0.0008	0.0522 ± 0.0013	0.327.8 ± 7.9	
38	188	80	0.17	0.0512 ± 0.0013	0.3856 ± 0.0116	0.0546 ± 0.0008	0.0512 ± 0.0013	0.321.6 ± 7.8	
39	351	193	0.07	0.0506 ± 0.0013	0.3741 ± 0.0105	0.0536 ± 0.0006	0.0506 ± 0.0013	0.318.0 ± 7.7	
40	214	164	0.16	0.0518 ± 0.0013	0.3895 ± 0.0114	0.0545 ± 0.0007	0.0517 ± 0.0013	0.325.2 ± 7.9	
41	122	61	0.36	0.0512 ± 0.0013	0.3979 ± 0.0126	0.0563 ± 0.0010	0.0510 ± 0.0013	0.320.9 ± 7.8	

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

† Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.

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TABLE 5 SHRIMP U-PB ISOTOPIC DATA FOR THE EULOWRIE PYROCLASTICS

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*			Apparent Age [†] (Ma)	$\pm 1\sigma$
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$			
1.1	359	197	0.33	0.0474 ± 0.0012	0.3618 ± 0.0117	0.0553 ± 0.0010	0.0473 ± 0.0012	0.297.8 ± 7.1			
2.1	609	404	0.11	0.0499 ± 0.0012	0.3672 ± 0.0110	0.0533 ± 0.0008	0.0499 ± 0.0012	313.8 ± 7.5			
3.1	808	884	11.66	0.0456 ± 0.0011	0.9954 ± 0.0272	0.1584 ± 0.0015	0.0403 ± 0.0010	254.6 ± 6.1			
4.1	672	327	0.84	0.0504 ± 0.0012	0.4165 ± 0.0120	0.0599 ± 0.0007	0.0500 ± 0.0012	314.4 ± 7.5			
5.1	778	554	0.23	0.0487 ± 0.0012	0.3656 ± 0.0105	0.0544 ± 0.0007	0.0486 ± 0.0012	306.1 ± 7.3			
6.1	377	303	0.67	0.0497 ± 0.0012	0.4004 ± 0.0129	0.0584 ± 0.0011	0.0494 ± 0.0012	310.6 ± 7.4			
7.1	533	342	0.65	0.0488 ± 0.0012	0.3918 ± 0.0125	0.0582 ± 0.0010	0.0485 ± 0.0012	305.2 ± 7.3			
8.1	119	99	1.52	0.0546 ± 0.0014	0.4975 ± 0.0421	0.0661 ± 0.0052	0.0537 ± 0.0014	337.3 ± 8.5			
9.1	823	568	0.33	0.0510 ± 0.0013	0.3888 ± 0.0127	0.0554 ± 0.0010	0.0508 ± 0.0012	319.3 ± 7.6			
10	740	532	0.91	0.0497 ± 0.0012	0.4152 ± 0.0128	0.0607 ± 0.0010	0.0492 ± 0.0012	309.6 ± 7.4			
11	250	50	0.85	0.0587 ± 0.0014	0.4860 ± 0.0191	0.0601 ± 0.0017	0.0582 ± 0.0014	364.6 ± 8.7			
12	449	364	1.04	0.0458 ± 0.0011	0.3902 ± 0.0136	0.0618 ± 0.0014	0.0454 ± 0.0011	285.9 ± 6.9			
13	217	103	1.12	0.0536 ± 0.0013	0.4624 ± 0.0193	0.0625 ± 0.0019	0.0530 ± 0.0013	333.1 ± 8.0			
14	280	236	1.16	0.0489 ± 0.0012	0.4234 ± 0.0165	0.0629 ± 0.0017	0.0483 ± 0.0012	304.0 ± 7.3			
15	757	543	0.47	0.0528 ± 0.0011	0.4121 ± 0.0113	0.0566 ± 0.0009	0.0526 ± 0.0011	330.2 ± 6.5			
16	514	301	0.26	0.0528 ± 0.0011	0.3977 ± 0.0129	0.0547 ± 0.0013	0.0526 ± 0.0011	330.6 ± 6.6			
17	312	477	0.72	0.0598 ± 0.0012	0.4856 ± 0.0159	0.0589 ± 0.0014	0.0593 ± 0.0012	371.6 ± 7.4			
18	705	535	0.64	0.0495 ± 0.0010	0.3969 ± 0.0112	0.0582 ± 0.0010	0.0492 ± 0.0010	309.5 ± 6.1			
19	106	72	2.80	0.0450 ± 0.0009	0.4830 ± 0.0243	0.0778 ± 0.0034	0.0438 ± 0.0009	276.2 ± 5.6			
20	550	342	1.50	0.0532 ± 0.0011	0.4841 ± 0.0142	0.0660 ± 0.0012	0.0524 ± 0.0011	329.3 ± 6.5			
21	456	365	0.55	0.0484 ± 0.0010	0.3824 ± 0.0125	0.0573 ± 0.0013	0.0481 ± 0.0010	303.1 ± 6.0			
22	962	727	13.97	0.0520 ± 0.0011	1.2870 ± 0.0329	0.1794 ± 0.0024	0.0448 ± 0.0009	282.3 ± 5.7			
23	201	121	0.70	0.0519 ± 0.0011	0.4201 ± 0.0171	0.0587 ± 0.0019	0.0515 ± 0.0011	324.0 ± 6.5			
24	282	264	0.85	0.0497 ± 0.0010	0.4116 ± 0.0150	0.0600 ± 0.0017	0.0493 ± 0.0010	310.2 ± 6.2			
25	340	227	1.01	0.0500 ± 0.0010	0.4243 ± 0.0144	0.0615 ± 0.0015	0.0495 ± 0.0010	311.5 ± 6.2			
26	1481	1501	13.33	0.0414 ± 0.0008	0.9918 ± 0.0231	0.1736 ± 0.0016	0.0359 ± 0.0007	227.4 ± 4.5			
7.2	580	447	1.02	0.0514 ± 0.0010	0.4367 ± 0.0134	0.0616 ± 0.0013	0.0509 ± 0.0010	320.0 ± 6.3			
27	581	401	1.82	0.0503 ± 0.0010	0.4770 ± 0.0143	0.0689 ± 0.0014	0.0493 ± 0.0010	310.4 ± 6.2			
18	457	282	0.26	0.0498 ± 0.0010	0.3755 ± 0.0131	0.0547 ± 0.0014	0.0497 ± 0.0010	312.5 ± 6.2			
28	236	95	0.97	0.0493 ± 0.0010	0.4157 ± 0.0180	0.0612 ± 0.0022	0.0488 ± 0.0010	307.1 ± 6.2			
10	610	529	16.68	0.0504 ± 0.0010	1.4192 ± 0.0408	0.2041 ± 0.0037	0.0420 ± 0.0009	265.4 ± 5.4			
29	438	336	0.05	0.0528 ± 0.0011	0.3840 ± 0.0118	0.0528 ± 0.0011	0.0527 ± 0.0011	331.3 ± 6.6			
29	551	401	0.17	0.0523 ± 0.0011	0.3883 ± 0.0115	0.0539 ± 0.0010	0.0522 ± 0.0011	328.0 ± 6.5			

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

[†]Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.

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TABLE 8. SHRIMP U-PB ISOTOPIC DATA FOR WANGANUI ANDESITE

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*		Apparent Age† (Ma) $\pm 1\sigma$
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	$^{206}\text{Pb}/^{238}\text{U}$	
W1.1	269	133	0.33	0.0511 \pm 0.0013	0.3929 \pm 0.0121	0.0558 \pm 0.0009	0.0509 \pm 0.0013	320.2 \pm 7.7	
W2.1	723	438	-0.05	0.0514 \pm 0.0013	0.3708 \pm 0.0102	0.0524 \pm 0.0005	0.0514 \pm 0.0013	323.0 \pm 7.8	
W3.1	3512	3545	0.14	0.0546 \pm 0.0013	0.4075 \pm 0.0105	0.0541 \pm 0.0002	0.0545 \pm 0.0013	342.2 \pm 8.2	
W4.1	721	574	0.09	0.0502 \pm 0.0012	0.3714 \pm 0.0103	0.0536 \pm 0.0005	0.0502 \pm 0.0012	315.8 \pm 7.6	
W5.1	370	285	0.41	0.0526 \pm 0.0013	0.4104 \pm 0.0121	0.0565 \pm 0.0007	0.0524 \pm 0.0013	329.4 \pm 8.0	
W6.1	472	299	0.37	0.0504 \pm 0.0012	0.3900 \pm 0.0113	0.0562 \pm 0.0007	0.0502 \pm 0.0012	315.6 \pm 7.6	
W7.1	419	245	0.14	0.0515 \pm 0.0013	0.3844 \pm 0.0113	0.0541 \pm 0.0007	0.0514 \pm 0.0013	323.4 \pm 7.8	
W8.1	731	568	0.13	0.0518 \pm 0.0013	0.3853 \pm 0.0106	0.0540 \pm 0.0005	0.0517 \pm 0.0013	325.1 \pm 7.8	
W9.1	607	418	0.14	0.0516 \pm 0.0013	0.3853 \pm 0.0109	0.0541 \pm 0.0006	0.0516 \pm 0.0013	324.1 \pm 7.8	
W10.1	1386	1658	0.05	0.0521 \pm 0.0013	0.3827 \pm 0.0103	0.0533 \pm 0.0004	0.0521 \pm 0.0013	327.3 \pm 7.9	
W11.1	467	276	0.08	0.0510 \pm 0.0013	0.3768 \pm 0.0109	0.0536 \pm 0.0007	0.0510 \pm 0.0013	320.6 \pm 7.7	
W12.1	467	266	0.15	0.0506 \pm 0.0013	0.3782 \pm 0.0110	0.0542 \pm 0.0007	0.0505 \pm 0.0012	317.7 \pm 7.7	
W13.1	310	150	0.20	0.0514 \pm 0.0013	0.3875 \pm 0.0118	0.0546 \pm 0.0008	0.0513 \pm 0.0013	322.8 \pm 7.8	
W14.1	479	235	0.30	0.0509 \pm 0.0013	0.3898 \pm 0.0112	0.0555 \pm 0.0007	0.0508 \pm 0.0013	319.1 \pm 7.7	
W15.1	678	501	0.19	0.0513 \pm 0.0013	0.3857 \pm 0.0108	0.0546 \pm 0.0006	0.0512 \pm 0.0013	321.6 \pm 7.8	
W16.1	540	329	0.04	0.0517 \pm 0.0013	0.3791 \pm 0.0108	0.0531 \pm 0.0006	0.0517 \pm 0.0013	325.0 \pm 7.8	
W17.1	827	381	0.08	0.0514 \pm 0.0013	0.3795 \pm 0.0105	0.0535 \pm 0.0005	0.0514 \pm 0.0013	323.1 \pm 7.8	
W18.1	1280	1507	0.16	0.0524 \pm 0.0013	0.3922 \pm 0.0105	0.0542 \pm 0.0004	0.0524 \pm 0.0013	329.0 \pm 7.9	
W19.1	391	212	0.05	0.0518 \pm 0.0013	0.3806 \pm 0.0118	0.0533 \pm 0.0009	0.0517 \pm 0.0013	325.2 \pm 7.9	
W20.1	589	238	0.04	0.0520 \pm 0.0013	0.3812 \pm 0.0109	0.0532 \pm 0.0006	0.0520 \pm 0.0013	326.6 \pm 7.9	
W21.1	403	337	0.19	0.0515 \pm 0.0013	0.3871 \pm 0.0116	0.0545 \pm 0.0008	0.0514 \pm 0.0013	323.1 \pm 7.8	
W22.1	338	197	0.25	0.0515 \pm 0.0013	0.3908 \pm 0.0121	0.0551 \pm 0.0009	0.0513 \pm 0.0013	322.7 \pm 7.8	
W23.1	808	524	0.26	0.0520 \pm 0.0013	0.3961 \pm 0.0111	0.0552 \pm 0.0006	0.0519 \pm 0.0013	326.2 \pm 7.9	
W27.1	199	115	0.27	0.0516 \pm 0.0008	0.3927 \pm 0.0094	0.0552 \pm 0.0009	0.0514 \pm 0.0008	323.3 \pm 5.1	
W28.1	695	461	0.22	0.0498 \pm 0.0008	0.3762 \pm 0.0072	0.0548 \pm 0.0005	0.0497 \pm 0.0008	312.5 \pm 4.9	
W29.1	393	199	0.30	0.0503 \pm 0.0008	0.3852 \pm 0.0080	0.0555 \pm 0.0006	0.0502 \pm 0.0008	315.5 \pm 5.0	
W30.1	506	322	0.11	0.0508 \pm 0.0008	0.3772 \pm 0.0075	0.0538 \pm 0.0005	0.0508 \pm 0.0008	319.3 \pm 5.0	
W31.1	664	383	0.27	0.0472 \pm 0.0008	0.3599 \pm 0.0072	0.0553 \pm 0.0005	0.0471 \pm 0.0008	296.6 \pm 4.7	
W32.1	556	365	0.14	0.0506 \pm 0.0008	0.3773 \pm 0.0074	0.0541 \pm 0.0005	0.0505 \pm 0.0008	317.9 \pm 5.0	
W33.1	451	271	0.12	0.0496 \pm 0.0008	0.3688 \pm 0.0076	0.0539 \pm 0.0006	0.0495 \pm 0.0008	311.6 \pm 4.9	
W34.1	956	827	0.17	0.0508 \pm 0.0008	0.3807 \pm 0.0069	0.0544 \pm 0.0004	0.0507 \pm 0.0008	318.6 \pm 5.0	
W35.1	868	726	0.01	0.0510 \pm 0.0008	0.3722 \pm 0.0069	0.0529 \pm 0.0004	0.0510 \pm 0.0008	320.9 \pm 5.1	
W36.1	724	467	0.18	0.0509 \pm 0.0008	0.3822 \pm 0.0072	0.0544 \pm 0.0004	0.0508 \pm 0.0008	319.6 \pm 5.1	
W37.1	596	381	0.14	0.0517 \pm 0.0008	0.3855 \pm 0.0075	0.0541 \pm 0.0005	0.0516 \pm 0.0008	324.4 \pm 5.1	
W38.1	277	178	0.40	0.0494 \pm 0.0008	0.3846 \pm 0.0085	0.0564 \pm 0.0007	0.0492 \pm 0.0008	309.9 \pm 4.9	
W39.1	819	616	0.13	0.0505 \pm 0.0008	0.3759 \pm 0.0071	0.0540 \pm 0.0004	0.0504 \pm 0.0008	317.3 \pm 5.0	
W40.1	724	569	0.14	0.0507 \pm 0.0008	0.3781 \pm 0.0072	0.0541 \pm 0.0004	0.0506 \pm 0.0008	318.5 \pm 5.0	
W41.1	227	126	0.20	0.0494 \pm 0.0008	0.3723 \pm 0.0087	0.0547 \pm 0.0008	0.0493 \pm 0.0008	310.3 \pm 4.9	
W42.1	777	481	0.03	0.0512 \pm 0.0008	0.3750 \pm 0.0071	0.0531 \pm 0.0004	0.0512 \pm 0.0008	321.8 \pm 5.1	
W43.1	317	245	0.08	0.0501 \pm 0.0008	0.3696 \pm 0.0080	0.0535 \pm 0.0007	0.0501 \pm 0.0008	314.9 \pm 5.0	

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

† Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.

TABLE 1. SHRIMP U-PB ISOTOPIC DATA FOR EASTONS ARM RHYOLITE

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*			Apparent Age† (Ma)	$\pm 1\text{s}$
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	$\pm 1\text{s}$	$\pm 1\text{s}$		
EA1.1	456	278	0.10	0.0517 ± 0.0013	0.3826 ± 0.0110	0.0537 ± 0.0006	0.0517 ± 0.0013	324.7 ± 7.8			
EA2.1	292	133	0.19	0.0503 ± 0.0012	0.3782 ± 0.0115	0.0545 ± 0.0008	0.0502 ± 0.0012	315.9 ± 7.6			
EA3.1	543	262	0.15	0.0499 ± 0.0012	0.3730 ± 0.0106	0.0542 ± 0.0006	0.0499 ± 0.0012	313.7 ± 7.6			
EA4.1	771	486	0.27	0.0509 ± 0.0013	0.3881 ± 0.0107	0.0553 ± 0.0005	0.0508 ± 0.0013	319.3 ± 7.7			
EA5.1	885	261	0.52	0.0512 ± 0.0013	0.4055 ± 0.0110	0.0575 ± 0.0005	0.0509 ± 0.0013	320.0 ± 7.7			
EA6.1	846	445	0.82	0.0517 ± 0.0013	0.4294 ± 0.0118	0.0603 ± 0.0006	0.0512 ± 0.0013	322.1 ± 7.8			
EA7.1	850	390	0.75	0.0497 ± 0.0012	0.4085 ± 0.0111	0.0596 ± 0.0005	0.0494 ± 0.0012	310.5 ± 7.5			
EA8.1	552	273	0.37	0.0494 ± 0.0012	0.3828 ± 0.0109	0.0562 ± 0.0006	0.0492 ± 0.0012	309.7 ± 7.5			
EA9.1	533	312	0.11	0.0508 ± 0.0013	0.3769 ± 0.0108	0.0538 ± 0.0006	0.0508 ± 0.0013	319.1 ± 7.7			
EA10.1	1001	605	0.05	0.0512 ± 0.0013	0.3755 ± 0.0102	0.0532 ± 0.0004	0.0511 ± 0.0013	321.5 ± 7.8			
EA11.1	383	217	0.46	0.0501 ± 0.0012	0.3935 ± 0.0117	0.0570 ± 0.0008	0.0498 ± 0.0012	313.5 ± 7.6			
EA12.1	478	243	0.21	0.0522 ± 0.0013	0.3931 ± 0.0113	0.0547 ± 0.0006	0.0520 ± 0.0013	327.1 ± 7.9			
EA13.1	784	546	0.10	0.0503 ± 0.0012	0.3724 ± 0.0103	0.0537 ± 0.0005	0.0503 ± 0.0012	316.1 ± 7.6			
EA14.1	606	470	0.02	0.0529 ± 0.0013	0.3861 ± 0.0108	0.0530 ± 0.0006	0.0529 ± 0.0013	332.1 ± 8.0			
EA15.1	136	56	0.81	0.0506 ± 0.0013	0.4195 ± 0.0147	0.0601 ± 0.0013	0.0502 ± 0.0012	315.7 ± 7.6			
EA16.1	224	140	0.22	0.0506 ± 0.0013	0.3823 ± 0.0124	0.0548 ± 0.0010	0.0505 ± 0.0013	317.5 ± 7.7			
EA17.1	961	700	0.05	0.0516 ± 0.0013	0.3786 ± 0.0103	0.0532 ± 0.0005	0.0518 ± 0.0013	324.2 ± 7.8			
EA18.1	593	187	0.23	0.0525 ± 0.0013	0.3975 ± 0.0112	0.0549 ± 0.0006	0.0524 ± 0.0013	329.2 ± 7.9			
EA19.1	426	160	0.43	0.0514 ± 0.0013	0.4018 ± 0.0118	0.0567 ± 0.0007	0.0511 ± 0.0013	321.5 ± 7.8			
EA20.1	1231	506	0.23	0.0502 ± 0.0012	0.3793 ± 0.0102	0.0548 ± 0.0005	0.0500 ± 0.0012	314.8 ± 7.6			
EA21.1	81	49	0.78	0.0583 ± 0.0014	0.4811 ± 0.0193	0.0599 ± 0.0017	0.0578 ± 0.0014	362.4 ± 8.8			
EA22.1	407	267	0.34	0.0500 ± 0.0012	0.3852 ± 0.0116	0.0558 ± 0.0008	0.0499 ± 0.0012	313.7 ± 7.6			
EA23.1	829	319	1.19	0.0506 ± 0.0013	0.4436 ± 0.0122	0.0636 ± 0.0006	0.0500 ± 0.0012	314.3 ± 7.6			
EA27.1	503	305	0.16	0.0510 ± 0.0008	0.3815 ± 0.0076	0.0543 ± 0.0005	0.0509 ± 0.0008	319.9 ± 5.1			
EA28.1	253	150	1.03	0.0501 ± 0.0008	0.4295 ± 0.0095	0.0622 ± 0.0008	0.0496 ± 0.0008	312.1 ± 4.9			
EA29.1	502	270	0.25	0.0513 ± 0.0008	0.3890 ± 0.0078	0.0550 ± 0.0005	0.0511 ± 0.0008	321.5 ± 5.1			
EA30.1	162	65	0.46	0.0491 ± 0.0008	0.3854 ± 0.0104	0.0570 ± 0.0011	0.0489 ± 0.0008	307.5 ± 4.9			
EA31.1	708	499	0.02	0.0510 ± 0.0008	0.3725 ± 0.0074	0.0530 ± 0.0005	0.0510 ± 0.0008	320.4 ± 5.1			
EA32.1	891	367	0.27	0.0499 ± 0.0008	0.3806 ± 0.0071	0.0553 ± 0.0004	0.0498 ± 0.0008	313.3 ± 5.0			
EA33.1	758	551	0.43	0.0520 ± 0.0008	0.4069 ± 0.0077	0.0567 ± 0.0004	0.0518 ± 0.0008	325.7 ± 5.1			
EA34.1	438	270	0.70	0.0492 ± 0.0008	0.4008 ± 0.0083	0.0591 ± 0.0006	0.0488 ± 0.0008	307.3 ± 4.9			
EA35.1	464	272	0.23	0.0512 ± 0.0008	0.3879 ± 0.0078	0.0549 ± 0.0006	0.0511 ± 0.0008	321.3 ± 5.1			
EA36.1	1037	459	1.79	0.0522 ± 0.0008	0.4972 ± 0.0089	0.0691 ± 0.0004	0.0513 ± 0.0008	322.4 ± 5.1			
EA37.1	466	372	0.10	0.0519 ± 0.0008	0.3849 ± 0.0077	0.0537 ± 0.0005	0.0519 ± 0.0008	326.1 ± 5.2			
EA38.1	439	181	0.11	0.0510 ± 0.0008	0.3786 ± 0.0077	0.0538 ± 0.0006	0.0510 ± 0.0008	320.4 ± 5.1			
EA39.1	442	213	0.17	0.0503 ± 0.0008	0.3765 ± 0.0077	0.0543 ± 0.0006	0.0502 ± 0.0008	315.5 ± 5.0			
EA40.1	795	477	0.53	0.0507 ± 0.0008	0.4028 ± 0.0076	0.0576 ± 0.0005	0.0505 ± 0.0008	317.3 ± 5.0			
EA41.1	462	217	0.48	0.0475 ± 0.0008	0.3750 ± 0.0077	0.0572 ± 0.0006	0.0473 ± 0.0008	298.0 ± 4.7			
EA42.1	431	241	0.03	0.0498 ± 0.0008	0.3640 ± 0.0074	0.0531 ± 0.0006	0.0497 ± 0.0008	313.0 ± 5.0			
EA43.1	704	618	0.21	0.0504 ± 0.0008	0.3801 ± 0.0073	0.0547 ± 0.0005	0.0503 ± 0.0008	316.2 ± 5.0			

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

‡Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.

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TABLE 8. SHRIMP U-PB ISOTOPIC DATA FOR PERI RHYOLITE.

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*			Apparent Age [†] (Ma)	$\pm 1\sigma$
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	$\pm 1\sigma$	$\pm 1\sigma$		
P1.1	508	300	0.45	0.0489 ± 0.0013	0.3835 ± 0.0120	0.0569 ± 0.0007	0.0487 ± 0.0013		306.3 ± 8.3		
P2.1	305	129	0.09	0.0508 ± 0.0014	0.3756 ± 0.0117	0.0536 ± 0.0006	0.0508 ± 0.0014		319.2 ± 8.6		
P3.1	293	118	0.06	0.0517 ± 0.0014	0.3803 ± 0.0119	0.0534 ± 0.0006	0.0517 ± 0.0014		324.6 ± 8.8		
P4.1	595	315	1.82	0.0520 ± 0.0014	0.4968 ± 0.0148	0.0693 ± 0.0006	0.0510 ± 0.0014		320.9 ± 8.7		
P5.1	176	113	0.30	0.0560 ± 0.0015	0.4286 ± 0.0139	0.0556 ± 0.0008	0.0558 ± 0.0015		349.9 ± 9.4		
P6.1	250	174	0.13	0.0516 ± 0.0014	0.3838 ± 0.0123	0.0540 ± 0.0007	0.0515 ± 0.0014		323.7 ± 8.7		
P7.1	1887	1350	56.76	0.0939 ± 0.0026	7.3638 ± 0.2056	0.5687 ± 0.0011	0.0406 ± 0.0011		256.6 ± 7.0		
P8.1	756	248	5.59	0.0532 ± 0.0015	0.7601 ± 0.0221	0.1036 ± 0.0006	0.0502 ± 0.0014		315.9 ± 8.5		
P9.2	757	432	3.39	0.0519 ± 0.0014	0.5986 ± 0.0175	0.0836 ± 0.0006	0.0502 ± 0.0014		315.6 ± 8.5		
P10.1	343	308	0.03	0.0534 ± 0.0015	0.3907 ± 0.0124	0.0531 ± 0.0007	0.0534 ± 0.0015		335.3 ± 9.0		
P11.1	834	519	0.39	0.0528 ± 0.0015	0.4100 ± 0.0120	0.0563 ± 0.0004	0.0526 ± 0.0015		330.6 ± 8.9		
P12.1	1469	2082	66.87	0.1400 ± 0.0039	12.7515 ± 0.3553	0.6607 ± 0.0011	0.0464 ± 0.0013		292.2 ± 8.0		
P13.1	495	304	0.16	0.0510 ± 0.0014	0.3811 ± 0.0116	0.0542 ± 0.0005	0.0509 ± 0.0014		320.1 ± 8.6		
P14.1	1228	519	6.86	0.0518 ± 0.0014	0.8219 ± 0.0235	0.1152 ± 0.0005	0.0482 ± 0.0013		303.6 ± 8.2		
P15.1	909	408	18.19	0.0599 ± 0.0017	1.8017 ± 0.0514	0.2181 ± 0.0010	0.0490 ± 0.0014		308.4 ± 8.3		
P16.1	468	235	0.41	0.0507 ± 0.0014	0.3946 ± 0.0120	0.0565 ± 0.0006	0.0505 ± 0.0014		317.3 ± 8.6		
P17.1	1191	996	9.53	0.0487 ± 0.0013	0.9360 ± 0.0267	0.1394 ± 0.0006	0.0441 ± 0.0012		278.0 ± 7.5		
P18.1	977	472	2.60	0.0533 ± 0.0015	0.5617 ± 0.0162	0.0764 ± 0.0004	0.0519 ± 0.0014		326.4 ± 8.8		
P19.1	644	453	0.76	0.0485 ± 0.0013	0.3993 ± 0.0120	0.0597 ± 0.0005	0.0482 ± 0.0013		303.2 ± 8.2		
P20.1	701	593	0.21	0.0529 ± 0.0015	0.3995 ± 0.0119	0.0547 ± 0.0004	0.0528 ± 0.0015		331.8 ± 8.9		
P21.1	510	284	0.69	0.0530 ± 0.0015	0.4314 ± 0.0131	0.0590 ± 0.0006	0.0526 ± 0.0015		330.6 ± 8.9		
P26.1	432	401	3.96	0.0505 ± 0.0010	0.6174 ± 0.0139	0.0888 ± 0.0007	0.0485 ± 0.0010		305.1 ± 5.9		
P27.1	582	370	0.16	0.0509 ± 0.0010	0.3806 ± 0.0087	0.0543 ± 0.0005	0.0508 ± 0.0010		319.3 ± 6.2		
P28.1	1141	780	9.55	0.0524 ± 0.0010	1.0083 ± 0.0211	0.1396 ± 0.0006	0.0474 ± 0.0009		298.3 ± 5.8		
P29.1	361	214	0.03	0.0509 ± 0.0010	0.3721 ± 0.0089	0.0530 ± 0.0006	0.0509 ± 0.0010		319.9 ± 6.2		
P30.1	518	196	0.81	0.0523 ± 0.0010	0.4340 ± 0.0099	0.0602 ± 0.0005	0.0519 ± 0.0010		326.2 ± 6.3		
P32.1	585	441	2.10	0.0532 ± 0.0011	0.5271 ± 0.0117	0.0719 ± 0.0006	0.0521 ± 0.0010		327.2 ± 6.4		
P33.1	312	148	0.08	0.0513 ± 0.0010	0.3790 ± 0.0091	0.0536 ± 0.0006	0.0513 ± 0.0010		322.4 ± 6.3		
P34.1	778	490	11.02	0.0529 ± 0.0011	1.1162 ± 0.0235	0.1530 ± 0.0007	0.0471 ± 0.0009		296.7 ± 5.8		
P35.1	83	67	2.73	0.0580 ± 0.0012	0.6200 ± 0.0174	0.0776 ± 0.0014	0.0564 ± 0.0011		353.5 ± 6.9		
P33.2	256	115	5.57	0.0533 ± 0.0011	0.7605 ± 0.0179	0.1034 ± 0.0011	0.0504 ± 0.0010		316.7 ± 6.2		
P36.1	236	95	-0.07	0.0499 ± 0.0010	0.3594 ± 0.0092	0.0522 ± 0.0007	0.0500 ± 0.0010		314.3 ± 6.1		
P36.2	528	333	3.25	0.0483 ± 0.0010	0.5483 ± 0.0123	0.0823 ± 0.0007	0.0467 ± 0.0009		294.4 ± 5.7		
P16.2	388	207	1.37	0.0508 ± 0.0010	0.4568 ± 0.0106	0.0653 ± 0.0006	0.0501 ± 0.0010		314.9 ± 6.1		
P18.2	1041	980	6.41	0.0525 ± 0.0010	0.8043 ± 0.0171	0.1110 ± 0.0006	0.0492 ± 0.0010		309.5 ± 6.0		
P4.2	608	365	0.33	0.0501 ± 0.0010	0.3849 ± 0.0087	0.0558 ± 0.0005	0.0499 ± 0.0010		313.9 ± 6.1		
P2.2	329	161	0.57	0.0503 ± 0.0010	0.4022 ± 0.0096	0.0580 ± 0.0006	0.0500 ± 0.0010		314.7 ± 6.1		
P6.2	310	197	0.92	0.0517 ± 0.0010	0.4361 ± 0.0104	0.0612 ± 0.0007	0.0512 ± 0.0010		321.9 ± 6.3		
P9.2	505	221	0.57	0.0499 ± 0.0010	0.3988 ± 0.0092	0.0580 ± 0.0005	0.0496 ± 0.0010		312.1 ± 6.1		
P7.2	1660	666	43.62	0.0701 ± 0.0014	4.3415 ± 0.0881	0.4493 ± 0.0010	0.0395 ± 0.0008		249.8 ± 4.9		
P10.2	346	264	0.15	0.0503 ± 0.0010	0.3757 ± 0.0090	0.0542 ± 0.0006	0.0502 ± 0.0010		315.7 ± 6.1		
P11.2	910	413	1.05	0.0527 ± 0.0011	0.4536 ± 0.0098	0.0624 ± 0.0004	0.0522 ± 0.0010		328.0 ± 6.4		

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

[†]Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.

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TABLE 8. SHRIMP U-PB ISOTOPIC DATA FOR HORTON RIVER UNNAMED DACITE

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*			Apparent Age [†] (Ma)	$\pm 1\sigma$
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	$\pm 1\sigma$	$\pm 1\sigma$		
U1.1	199	142	0.87	0.0497 ± 0.0014	0.4155 ± 0.0145	0.0607 ± 0.0011	0.0492 ± 0.0014	309.7 ± 8.4			
U2.1	380	234	0.13	0.0504 ± 0.0014	0.3753 ± 0.0115	0.0540 ± 0.0006	0.0504 ± 0.0014	316.8 ± 8.5			
U3.1	605	478	-0.16	0.0512 ± 0.0014	0.3624 ± 0.0120	0.0514 ± 0.0008	0.0512 ± 0.0014	322.1 ± 8.7			
U4.1	816	533	0.11	0.0510 ± 0.0014	0.3783 ± 0.0111	0.0538 ± 0.0004	0.0510 ± 0.0014	320.5 ± 8.6			
U5.1	192	112	0.27	0.0523 ± 0.0014	0.3982 ± 0.0129	0.0553 ± 0.0008	0.0521 ± 0.0014	327.5 ± 8.8			
U6.1	364	224	0.09	0.0521 ± 0.0014	0.3852 ± 0.0119	0.0537 ± 0.0006	0.0520 ± 0.0014	326.9 ± 8.8			
U7.1	401	195	0.09	0.0527 ± 0.0015	0.3897 ± 0.0119	0.0536 ± 0.0006	0.0527 ± 0.0015	330.9 ± 8.9			
U8.1	250	135	0.03	0.0516 ± 0.0014	0.3773 ± 0.0125	0.0531 ± 0.0008	0.0516 ± 0.0014	324.0 ± 8.7			
U9.1	637	407	0.06	0.0508 ± 0.0014	0.3735 ± 0.0112	0.0534 ± 0.0005	0.0507 ± 0.0014	319.1 ± 8.6			
U10.1	361	212	0.08	0.0537 ± 0.0015	0.3968 ± 0.0124	0.0535 ± 0.0006	0.0537 ± 0.0015	337.2 ± 9.1			
U11.1	241	148	0.05	0.0512 ± 0.0014	0.3757 ± 0.0121	0.0532 ± 0.0007	0.0511 ± 0.0014	321.6 ± 8.7			
U12.1	284	178	0.08	0.0514 ± 0.0014	0.3797 ± 0.0121	0.0535 ± 0.0007	0.0514 ± 0.0014	323.1 ± 8.7			
U13.1	379	217	0.03	0.0519 ± 0.0014	0.3791 ± 0.0118	0.0530 ± 0.0006	0.0518 ± 0.0014	325.8 ± 8.8			
U14.1	897	576	0.11	0.0517 ± 0.0014	0.3836 ± 0.0113	0.0538 ± 0.0004	0.0517 ± 0.0014	324.8 ± 8.8			
U15.1	422	230	0.13	0.0525 ± 0.0014	0.3904 ± 0.0120	0.0539 ± 0.0006	0.0524 ± 0.0014	329.4 ± 8.9			
U16.1	842	590	0.01	0.0520 ± 0.0014	0.3792 ± 0.0112	0.0529 ± 0.0004	0.0520 ± 0.0014	327.0 ± 8.8			
U17.1	449	249	0.07	0.0539 ± 0.0015	0.3968 ± 0.0122	0.0534 ± 0.0006	0.0538 ± 0.0015	338.0 ± 9.1			
U18.1	685	371	0.06	0.0530 ± 0.0015	0.3895 ± 0.0117	0.0533 ± 0.0005	0.0529 ± 0.0015	332.5 ± 9.0			
U19.1	502	287	0.17	0.0510 ± 0.0014	0.3817 ± 0.0115	0.0543 ± 0.0005	0.0509 ± 0.0014	319.9 ± 8.6			
U20.1	515	373	0.05	0.0530 ± 0.0015	0.3888 ± 0.0118	0.0532 ± 0.0005	0.0529 ± 0.0015	332.5 ± 9.0			
U21.1	232	119	0.07	0.0514 ± 0.0014	0.3787 ± 0.0124	0.0534 ± 0.0008	0.0514 ± 0.0014	322.9 ± 8.7			
U26.1	252	142	-0.08	0.0497 ± 0.0010	0.3565 ± 0.0090	0.0521 ± 0.0007	0.0497 ± 0.0010	312.8 ± 6.1			
U27.1	303	218	0.06	0.0510 ± 0.0010	0.3754 ± 0.0092	0.0534 ± 0.0006	0.0510 ± 0.0010	320.6 ± 6.2			
U28.1	523	384	0.03	0.0530 ± 0.0011	0.3876 ± 0.0088	0.0530 ± 0.0005	0.0530 ± 0.0011	332.9 ± 6.5			
U29.1	456	282	0.09	0.0512 ± 0.0010	0.3781 ± 0.0088	0.0536 ± 0.0005	0.0511 ± 0.0010	321.5 ± 6.3			
U30.1	566	293	0.13	0.0506 ± 0.0010	0.3770 ± 0.0087	0.0540 ± 0.0005	0.0506 ± 0.0010	318.0 ± 6.2			
U31.1	325	202	0.03	0.0517 ± 0.0010	0.3783 ± 0.0093	0.0530 ± 0.0006	0.0517 ± 0.0010	325.1 ± 6.3			
U32.1	916	675	0.37	0.0515 ± 0.0010	0.3989 ± 0.0088	0.0561 ± 0.0004	0.0514 ± 0.0010	322.8 ± 6.3			
U34.1	371	242	0.09	0.0511 ± 0.0010	0.3775 ± 0.0088	0.0536 ± 0.0005	0.0510 ± 0.0010	320.9 ± 6.2			
U35.1	367	302	0.18	0.0518 ± 0.0010	0.3887 ± 0.0091	0.0545 ± 0.0006	0.0517 ± 0.0010	324.8 ± 6.3			
U36.1	413	239	0.00	0.0511 ± 0.0010	0.3717 ± 0.0087	0.0528 ± 0.0005	0.0511 ± 0.0010	321.3 ± 6.2			
U37.1	526	287	0.14	0.0512 ± 0.0010	0.3819 ± 0.0087	0.0540 ± 0.0005	0.0512 ± 0.0010	321.7 ± 6.3			
U38.1	493	298	0.04	0.0519 ± 0.0010	0.3806 ± 0.0088	0.0532 ± 0.0005	0.0519 ± 0.0010	326.1 ± 6.3			
U39.1	322	169	1.25	0.0513 ± 0.0010	0.4531 ± 0.0108	0.0641 ± 0.0007	0.0506 ± 0.0010	318.3 ± 6.2			
U40.1	866	684	0.01	0.0510 ± 0.0010	0.3721 ± 0.0082	0.0529 ± 0.0004	0.0510 ± 0.0010	320.6 ± 6.2			
U41.1	1642	1241	0.01	0.0514 ± 0.0010	0.3748 ± 0.0079	0.0529 ± 0.0003	0.0514 ± 0.0010	323.0 ± 6.3			
U42.1	639	439	0.03	0.0508 ± 0.0010	0.3717 ± 0.0083	0.0530 ± 0.0004	0.0508 ± 0.0010	319.6 ± 6.2			
U43.1	528	401	0.08	0.0512 ± 0.0010	0.3776 ± 0.0086	0.0535 ± 0.0005	0.0511 ± 0.0010	321.5 ± 6.3			
U44.1	399	178	0.06	0.0498 ± 0.0010	0.3667 ± 0.0086	0.0534 ± 0.0006	0.0498 ± 0.0010	313.4 ± 6.1			
U45.1	613	523	0.11	0.0498 ± 0.0010	0.3696 ± 0.0084	0.0538 ± 0.0005	0.0498 ± 0.0010	313.1 ± 6.1			

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

[†]Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.

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TABLE 10: SHRIMP U-PB ISOTOPIC DATA FOR THE FIGTREE CREEK UNNAMED IGNIMBRITE.

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*		Apparent Age† (Ma) ± 1s
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	± 1s	
1.1	715	422	0.25	0.0514 ± 0.0014	0.3869 ± 0.0118	0.0546 ± 0.0007	0.0513 ± 0.0014	322.2 ± 8.3	
2.1	530	480	0.56	0.0545 ± 0.0015	0.4318 ± 0.0134	0.0575 ± 0.0008	0.0542 ± 0.0014	340.3 ± 8.8	
3.1	381	255	3.35	0.0528 ± 0.0014	0.6024 ± 0.0188	0.0828 ± 0.0011	0.0510 ± 0.0014	320.6 ± 8.3	
4.1	369	152	0.22	0.0525 ± 0.0014	0.3935 ± 0.0133	0.0544 ± 0.0010	0.0524 ± 0.0014	329.1 ± 8.5	
5.1	281	114	0.41	0.0520 ± 0.0014	0.4020 ± 0.0137	0.0560 ± 0.0010	0.0518 ± 0.0014	325.7 ± 8.4	
6.1	366	175	0.43	0.0520 ± 0.0014	0.4031 ± 0.0131	0.0563 ± 0.0009	0.0517 ± 0.0014	325.2 ± 8.4	
7.1	182	95	0.93	0.0524 ± 0.0014	0.4393 ± 0.0160	0.0608 ± 0.0013	0.0519 ± 0.0014	326.4 ± 8.5	
8.1	285	171	0.47	0.0505 ± 0.0013	0.3939 ± 0.0136	0.0566 ± 0.0011	0.0502 ± 0.0013	315.9 ± 8.2	
9.1	604	320	0.39	0.0500 ± 0.0013	0.3849 ± 0.0119	0.0558 ± 0.0007	0.0498 ± 0.0013	313.3 ± 8.1	
10	481	246	0.66	0.0492 ± 0.0013	0.3954 ± 0.0124	0.0583 ± 0.0008	0.0488 ± 0.0013	307.3 ± 8.0	
11	666	369	0.64	0.0497 ± 0.0013	0.3987 ± 0.0121	0.0581 ± 0.0007	0.0494 ± 0.0013	311.0 ± 8.1	
12	258	172	0.68	0.0535 ± 0.0014	0.4310 ± 0.0146	0.0585 ± 0.0011	0.0531 ± 0.0014	333.5 ± 8.6	
13	594	424	0.32	0.0488 ± 0.0013	0.3721 ± 0.0115	0.0553 ± 0.0007	0.0487 ± 0.0013	306.4 ± 7.9	
14	802	549	0.37	0.0501 ± 0.0013	0.3843 ± 0.0117	0.0557 ± 0.0007	0.0499 ± 0.0013	313.7 ± 8.1	
15	858	710	0.37	0.0496 ± 0.0013	0.3812 ± 0.0113	0.0557 ± 0.0006	0.0495 ± 0.0013	311.1 ± 8.1	
16	601	322	0.35	0.0486 ± 0.0013	0.3717 ± 0.0115	0.0555 ± 0.0007	0.0484 ± 0.0013	304.9 ± 7.9	
17	429	298	0.36	0.0481 ± 0.0013	0.3690 ± 0.0118	0.0556 ± 0.0008	0.0479 ± 0.0013	301.8 ± 7.8	
18	626	508	0.29	0.0453 ± 0.0012	0.3435 ± 0.0106	0.0550 ± 0.0007	0.0452 ± 0.0012	284.8 ± 7.4	
19	198	75	1.19	0.0579 ± 0.0013	0.5042 ± 0.0166	0.0632 ± 0.0014	0.0572 ± 0.0013	358.6 ± 7.6	
20	504	287	0.86	0.0506 ± 0.0011	0.4197 ± 0.0117	0.0601 ± 0.0009	0.0502 ± 0.0011	315.7 ± 6.7	
21	668	356	0.23	0.0482 ± 0.0011	0.3615 ± 0.0103	0.0544 ± 0.0009	0.0481 ± 0.0011	302.5 ± 6.4	
22	973	908	0.27	0.0476 ± 0.0010	0.3594 ± 0.0094	0.0548 ± 0.0007	0.0474 ± 0.0010	298.7 ± 6.4	
23	155	126	2.50	0.0516 ± 0.0011	0.5344 ± 0.0185	0.0751 ± 0.0018	0.0503 ± 0.0011	316.5 ± 6.8	
24	503	286	0.60	0.0484 ± 0.0011	0.3860 ± 0.0109	0.0578 ± 0.0009	0.0481 ± 0.0011	302.9 ± 6.4	
25	572	282	0.52	0.0497 ± 0.0011	0.3911 ± 0.0107	0.0570 ± 0.0008	0.0495 ± 0.0011	311.3 ± 6.6	
26	623	682	0.24	0.0490 ± 0.0011	0.3683 ± 0.0099	0.0545 ± 0.0007	0.0489 ± 0.0011	307.7 ± 6.5	
27	441	326	0.99	0.0509 ± 0.0011	0.4308 ± 0.0117	0.0614 ± 0.0008	0.0504 ± 0.0011	317.0 ± 6.7	
28	224	103	1.75	0.0497 ± 0.0011	0.4675 ± 0.0138	0.0682 ± 0.0012	0.0488 ± 0.0011	307.3 ± 6.5	
29	1183	1228	0.36	0.0503 ± 0.0011	0.3858 ± 0.0094	0.0556 ± 0.0005	0.0502 ± 0.0011	315.5 ± 6.7	
30	495	399	0.58	0.0494 ± 0.0011	0.3921 ± 0.0104	0.0576 ± 0.0007	0.0491 ± 0.0011	309.0 ± 6.6	
31	211	139	1.16	0.0523 ± 0.0011	0.4531 ± 0.0136	0.0629 ± 0.0011	0.0517 ± 0.0011	324.7 ± 6.9	
32	356	193	0.95	0.0553 ± 0.0012	0.4644 ± 0.0126	0.0609 ± 0.0008	0.0548 ± 0.0012	343.6 ± 7.3	
33	432	303	1.22	0.0496 ± 0.0011	0.4336 ± 0.0117	0.0635 ± 0.0009	0.0490 ± 0.0011	308.1 ± 6.6	
35	688	568	5.77	0.0545 ± 0.0012	0.7873 ± 0.0192	0.1048 ± 0.0009	0.0513 ± 0.0011	322.6 ± 6.9	
36	241	118	2.42	0.0530 ± 0.0012	0.5427 ± 0.0157	0.0743 ± 0.0012	0.0517 ± 0.0011	324.9 ± 6.9	

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

† Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.

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TABLE 11. SHRIMP U-PB ISOTOPIC DATA FOR PIALLAWAY TRIG IGNIMBRITE

Grain area	U (ppm)	Th (ppm)	$f^{206}\text{Pb}^*$ (%)	Calibrated total Pb Compositions			Radiogenic Compositions*			Apparent Age [†] (Ma) ± 1s
				$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{207}\text{Pb}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	$^{206}\text{Pb}/^{238}\text{U}$	$^{206}\text{Pb}/^{238}\text{U}$	
1.1	202	215	0.36	0.0471 ± 0.0010	0.3634 ± 0.0093	0.0560 ± 0.0006	0.0469 ± 0.0010	0.0469 ± 0.0010	0.0469 ± 0.0010	295.6 ± 6.2
2.1	109	94	0.13	0.0449 ± 0.0010	0.3336 ± 0.0093	0.0539 ± 0.0008	0.0449 ± 0.0010	0.0449 ± 0.0010	0.0449 ± 0.0010	282.8 ± 5.9
3.1	131	109	0.02	0.0482 ± 0.0010	0.3507 ± 0.0095	0.0528 ± 0.0008	0.0481 ± 0.0010	0.0481 ± 0.0010	0.0481 ± 0.0010	303.1 ± 6.4
4.1	141	128	0.04	0.0484 ± 0.0010	0.3544 ± 0.0095	0.0531 ± 0.0007	0.0484 ± 0.0010	0.0484 ± 0.0010	0.0484 ± 0.0010	304.8 ± 6.4
5.1	98	77	0.02	0.0485 ± 0.0010	0.3535 ± 0.0101	0.0528 ± 0.0009	0.0485 ± 0.0010	0.0485 ± 0.0010	0.0485 ± 0.0010	305.5 ± 6.4
6.1	55	67	0.29	0.0493 ± 0.0011	0.3760 ± 0.0128	0.0553 ± 0.0013	0.0492 ± 0.0011	0.0492 ± 0.0011	0.0492 ± 0.0011	309.5 ± 6.5
7.1	129	94	0.09	0.0496 ± 0.0011	0.3657 ± 0.0100	0.0535 ± 0.0008	0.0496 ± 0.0011	0.0496 ± 0.0011	0.0496 ± 0.0011	311.8 ± 6.5
8.1	146	123	0.09	0.0486 ± 0.0010	0.3586 ± 0.0096	0.0535 ± 0.0007	0.0486 ± 0.0010	0.0486 ± 0.0010	0.0486 ± 0.0010	305.7 ± 6.4
9.1	153	124	0.01	0.0499 ± 0.0011	0.3634 ± 0.0097	0.0528 ± 0.0007	0.0499 ± 0.0011	0.0499 ± 0.0011	0.0499 ± 0.0011	314.2 ± 6.6
10	114	96	0.01	0.0487 ± 0.0011	0.3544 ± 0.0099	0.0528 ± 0.0008	0.0487 ± 0.0011	0.0487 ± 0.0011	0.0487 ± 0.0011	306.5 ± 6.4
11	95	82	0.09	0.0472 ± 0.0010	0.3478 ± 0.0101	0.0535 ± 0.0009	0.0471 ± 0.0010	0.0471 ± 0.0010	0.0471 ± 0.0010	296.7 ± 6.2
12	295	603	-0.03	0.0501 ± 0.0011	0.3620 ± 0.0089	0.0524 ± 0.0005	0.0501 ± 0.0011	0.0501 ± 0.0011	0.0501 ± 0.0011	315.1 ± 6.6
13	182	137	0.12	0.0488 ± 0.0011	0.3617 ± 0.0093	0.0538 ± 0.0006	0.0487 ± 0.0010	0.0487 ± 0.0010	0.0487 ± 0.0010	306.6 ± 6.4
14	108	117	0.05	0.0483 ± 0.0010	0.3543 ± 0.0100	0.0532 ± 0.0009	0.0483 ± 0.0010	0.0483 ± 0.0010	0.0483 ± 0.0010	304.1 ± 6.4
15	260	245	0.00	0.0505 ± 0.0011	0.3669 ± 0.0091	0.0527 ± 0.0005	0.0505 ± 0.0011	0.0505 ± 0.0011	0.0505 ± 0.0011	317.6 ± 6.6
16	170	174	0.17	0.0476 ± 0.0010	0.3559 ± 0.0095	0.0542 ± 0.0007	0.0476 ± 0.0010	0.0476 ± 0.0010	0.0476 ± 0.0010	299.5 ± 6.3
17	189	178	0.10	0.0488 ± 0.0011	0.3605 ± 0.0095	0.0536 ± 0.0007	0.0488 ± 0.0011	0.0488 ± 0.0011	0.0488 ± 0.0011	306.9 ± 6.4
18	143	128	0.14	0.0470 ± 0.0019	0.3500 ± 0.0171	0.0540 ± 0.0012	0.0470 ± 0.0019	0.0470 ± 0.0019	0.0470 ± 0.0019	295.8 ± 11.9
19	126	112	0.62	0.0469 ± 0.0019	0.3771 ± 0.0186	0.0584 ± 0.0013	0.0466 ± 0.0019	0.0466 ± 0.0019	0.0466 ± 0.0019	293.5 ± 11.8
20	165	113	-0.01	0.0507 ± 0.0021	0.3680 ± 0.0176	0.0526 ± 0.0011	0.0507 ± 0.0021	0.0507 ± 0.0021	0.0507 ± 0.0021	318.9 ± 12.8
21	104	148	0.70	0.0513 ± 0.0021	0.4171 ± 0.0210	0.0590 ± 0.0014	0.0509 ± 0.0021	0.0509 ± 0.0021	0.0509 ± 0.0021	320.1 ± 12.8
22	104	78	0.20	0.0513 ± 0.0021	0.3855 ± 0.0202	0.0545 ± 0.0015	0.0512 ± 0.0021	0.0512 ± 0.0021	0.0512 ± 0.0021	322.1 ± 12.9
23	149	157	0.15	0.0491 ± 0.0020	0.3655 ± 0.0177	0.0540 ± 0.0011	0.0490 ± 0.0020	0.0490 ± 0.0020	0.0490 ± 0.0020	308.3 ± 12.3
24	129	110	0.27	0.0487 ± 0.0020	0.3698 ± 0.0184	0.0551 ± 0.0013	0.0486 ± 0.0020	0.0486 ± 0.0020	0.0486 ± 0.0020	305.7 ± 12.3
25	146	287	0.29	0.0514 ± 0.0021	0.3921 ± 0.0179	0.0553 ± 0.0009	0.0513 ± 0.0021	0.0513 ± 0.0021	0.0513 ± 0.0021	322.3 ± 12.9
26	120	108	0.05	0.0538 ± 0.0022	0.3938 ± 0.0191	0.0531 ± 0.0011	0.0538 ± 0.0022	0.0538 ± 0.0022	0.0538 ± 0.0022	337.7 ± 13.5
27	142	141	-0.10	0.0500 ± 0.0021	0.3567 ± 0.0165	0.0517 ± 0.0009	0.0501 ± 0.0021	0.0501 ± 0.0021	0.0501 ± 0.0021	314.9 ± 12.6
28	122	103	0.13	0.0508 ± 0.0021	0.3776 ± 0.0173	0.0539 ± 0.0009	0.0508 ± 0.0021	0.0508 ± 0.0021	0.0508 ± 0.0021	319.2 ± 12.8
29	146	124	0.09	0.0491 ± 0.0020	0.3619 ± 0.0164	0.0535 ± 0.0008	0.0490 ± 0.0020	0.0490 ± 0.0020	0.0490 ± 0.0020	308.6 ± 12.4
30	174	156	-0.10	0.0493 ± 0.0020	0.3518 ± 0.0160	0.0518 ± 0.0008	0.0493 ± 0.0020	0.0493 ± 0.0020	0.0493 ± 0.0020	310.3 ± 12.4
31	296	200	0.08	0.0481 ± 0.0020	0.3543 ± 0.0155	0.0534 ± 0.0006	0.0481 ± 0.0020	0.0481 ± 0.0020	0.0481 ± 0.0020	302.7 ± 12.1
32	209	308	0.03	0.0477 ± 0.0020	0.3478 ± 0.0157	0.0529 ± 0.0008	0.0477 ± 0.0020	0.0477 ± 0.0020	0.0477 ± 0.0020	300.1 ± 12.0
33	129	103	0.09	0.0494 ± 0.0020	0.3643 ± 0.0169	0.0535 ± 0.0009	0.0493 ± 0.0020	0.0493 ± 0.0020	0.0493 ± 0.0020	310.5 ± 12.4
34	220	258	-0.02	0.0490 ± 0.0020	0.3545 ± 0.0158	0.0525 ± 0.0007	0.0490 ± 0.0020	0.0490 ± 0.0020	0.0490 ± 0.0020	308.3 ± 12.3
35	152	135	0.08	0.0478 ± 0.0020	0.3518 ± 0.0161	0.0534 ± 0.0009	0.0477 ± 0.0020	0.0477 ± 0.0020	0.0477 ± 0.0020	300.6 ± 12.0
36	158	189	0.21	0.0493 ± 0.0020	0.3706 ± 0.0173	0.0546 ± 0.0010	0.0492 ± 0.0020	0.0492 ± 0.0020	0.0492 ± 0.0020	309.3 ± 12.4
37	218	339	0.06	0.0499 ± 0.0020	0.3665 ± 0.0165	0.0532 ± 0.0008	0.0499 ± 0.0020	0.0499 ± 0.0020	0.0499 ± 0.0020	313.9 ± 12.6

*Common Pb assessed by reference to ^{207}Pb ; † $f^{206}\text{Pb}$ indicates the percentage of common ^{206}Pb in the total measured ^{206}Pb .

[†]Apparent age is the $^{206}\text{Pb}/^{238}\text{U}$ age.