

Appendix 1: Locations of U-Pb zircon samples (WGS84).

Sample ID	Lat (°S)	Lon. (°W)	Interpreted Age (Ma)	2σ Error
<i>Igneous samples:</i>				
EC136	49° 53.855	73° 11.114	148.5	1.5
EC130	49° 53.855	73° 11.114	148.4	1.4
EQC73	49° 20.308	72° 51.736	149.1	1.5
EQC08b	49° 19.598	72° 52.749	149.7	1.3
LT35	49° 16.897	72° 59.193	150.4	2.2
CS47c	49° 16.596	72° 56.301	152.0	2.0

Detrital samples:

EC140	49° 53.855	73° 11.114	n/a	n/a
CS47a	49° 16.596	72° 56.301	n/a	n/a

Note: All 'EC' samples are from the same general location

Supplementary Data: U-Pb zircon geochronology by LA-ICPMS

Appendix 2: Description of analytical methods in U-Pb zircon geochronology

(Also available at www.laserchron.org)

Zircon grains were extracted from host samples at Stanford University following standard heavy mineral separation techniques, which included crushing/grinding, Gemeni table, Frantz magnetic separation, and heavy liquids. Zircon separates were mounted onto epoxy at the University of Arizona. U-Pb geochronology of zircons was conducted by laser ablation multicollector inductively coupled plasma mass spectrometry (LA-MC-ICPMS) at the Arizona LaserChron Center (ALC) (Gehrels et al., 2006, 2008). The analyses involve ablation of zircon with a New Wave UP193HE Excimer laser using a spot diameter of 30 microns. The ablated material is carried in helium into the plasma source of a Nu HR ICPMS, which is equipped with a flight tube of sufficient width that U, Th, and Pb isotopes are measured simultaneously. All measurements are made in static mode, using Faraday detectors with 3×10^{11} ohm resistors for ^{238}U , ^{232}Th , ^{208}Pb - ^{206}Pb , and discrete dynode ion counters for ^{204}Pb and ^{202}Hg . Ion yields are ~0.8 mv per ppm. Each analysis consists of one 15-second integration on peaks with the laser off (for backgrounds), 15 one-second integrations with the laser firing, and a 30 second delay to purge the previous sample and prepare for the next analysis. The ablation pit is ~15 microns in depth.

For each analysis, the errors in determining $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{204}\text{Pb}$ result in a measurement error of ~1-2% (at 2-sigma level) in the $^{206}\text{Pb}/^{238}\text{U}$ age. The errors in measurement of $^{206}\text{Pb}/^{207}\text{Pb}$ and $^{206}\text{Pb}/^{204}\text{Pb}$ also result in ~1-2% (at 2-sigma level) uncertainty in age for grains that are >1.0 Ga, but are substantially larger for younger grains due to low intensity of the ^{207}Pb signal. For most analyses, the cross-over in precision of $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{207}\text{Pb}$ ages occurs at ~1.0 Ga. ^{204}Hg interference with ^{204}Pb is accounted for measurement of ^{202}Hg during laser ablation and subtraction of ^{204}Hg according to the natural $^{202}\text{Hg}/^{204}\text{Hg}$ of 4.35. This Hg correction is not significant for most analyses because our Hg backgrounds are low (generally ~150 cps at mass 204). Common Pb correction is accomplished by using the Hg-corrected ^{204}Pb and assuming an initial Pb composition from Stacey and Kramers (1975). Uncertainties of

1.5 for $^{206}\text{Pb}/^{204}\text{Pb}$ and 0.3 for $^{207}\text{Pb}/^{204}\text{Pb}$ are applied to these compositional values based on the variation in Pb isotopic composition in modern crystal rocks.

Inter-element fractionation of Pb/U is generally ~5%, whereas apparent fractionation of Pb isotopes is generally <0.2%. In-run analysis of fragments of a large zircon crystal (generally every fifth measurement) with known age of 563.5 ± 3.2 Ma (2-sigma error) is used to correct for this fractionation. The uncertainty resulting from the calibration correction is generally 1-2% (2-sigma) for both $^{206}\text{Pb}/^{207}\text{Pb}$ and $^{206}\text{Pb}/^{238}\text{U}$ ages. Concentrations of U and Th are calibrated relative to our Sri Lanka zircon, which contains ~518 ppm of U and 68 ppm Th. Uncertainties shown at the 1-sigma level, and include only measurement errors. Analyses that are >20% discordant (by comparison of $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{207}\text{Pb}$ ages) or >5% reverse discordant (in italics) are not considered further.

REFERENCES CITED

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- Gehrels, G. E., Valencia, V., and J. Ruiz, J., 2008, Enhanced precision, accuracy, efficiency, and spatial resolution of U-Pb ages by laser ablation–multicollector–inductively coupled plasma–mass spectrometry: Geochemistry, Geophysics, Geosystems, v. 9, Q03017, doi:10.1029/2007GC001805.
- Stacey, J.S., and Kramers, J.D., 1975, Approximation of terrestrial lead isotope evolution by a two-stage model: Earth and Planetary Science Letters, v. 26, p. 207-221.

Appendix 2: U-Pb geochronologic analyses.		AgePick Table												Apparent ages (Ma)					
Analysis	U (ppm)	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±	
		204Pb	207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)		
Igneous Zircon Samples																			
MAM14-EC136-1 <>	145	10771	1.6	21.6270	13.0	0.1459	13.4	0.0229	3.1	0.23	145.8	4.5	138.3	17.3	10.1	314.5	145.8	3.1	
MAM14-EC136-2 <>	432	10867	1.1	19.7915	5.8	0.1597	5.9	0.0229	1.3	0.22	146.1	1.8	150.4	8.3	219.3	133.4	146.1	1.3	
MAM14-EC136-5 <>	234	12950	1.2	20.2127	9.8	0.1573	10.0	0.0231	2.2	0.22	147.0	3.1	148.4	13.8	170.3	228.4	147.0	2.2	
MAM14-EC136-21 <>	82	7746	2.1	19.0432	27.2	0.1672	28.9	0.0231	9.6	0.33	147.2	14.0	157.0	42.0	307.8	630.4	147.2	9.8	
MAM14-EC136-24 <>	695	71161	1.0	20.1342	2.8	0.1588	3.0	0.0232	1.1	0.37	147.8	1.6	149.6	4.1	179.4	64.2	147.8	1.1	
MAM14-EC136-20 <>	336	21059	1.0	20.1164	6.4	0.1593	7.0	0.0232	3.0	0.42	148.1	4.3	150.1	9.8	181.5	148.5	148.1	3.0	
MAM14-EC136-11 <>	173	18715	1.5	19.4210	9.8	0.1651	10.2	0.0232	2.9	0.29	148.2	4.3	155.1	14.7	262.9	225.8	148.2	3.0	
MAM14-EC136-7 <>	504	77473	3.9	21.2305	3.7	0.1513	3.9	0.0233	1.2	0.30	148.5	1.7	143.1	5.2	54.4	88.4	148.5	1.2	
MAM14-EC136-23 <>	88	6399	2.3	20.2289	18.7	0.1592	19.1	0.0234	4.0	0.21	148.8	6.0	150.0	26.6	168.5	439.5	148.8	4.2	
MAM14-EC136-15 <>	163	14762	2.2	23.0664	11.0	0.1401	11.2	0.0234	2.1	0.19	149.4	3.2	133.1	14.0	-147.3	273.9	149.4	2.2	
MAM14-EC136-6 <>	126	14432	2.0	20.3780	10.0	0.1586	10.8	0.0234	3.9	0.36	149.4	5.8	149.5	15.0	151.3	235.4	149.4	4.1	
MAM14-EC136-10 <>	401	32916	1.3	20.5617	2.3	0.1572	3.3	0.0234	2.4	0.73	149.4	3.6	148.3	4.6	130.2	53.6	149.4	2.5	
MAM14-EC136-4 <>	403	34299	1.9	20.2376	3.7	0.1601	4.6	0.0235	2.7	0.59	149.7	4.0	150.8	6.5	167.5	87.5	149.7	2.8	
MAM14-EC136-18 <>	167	12368	1.5	20.8730	4.7	0.1554	5.4	0.0235	2.8	0.51	149.9	4.1	146.7	7.4	94.8	111.0	149.9	2.9	
MAM14-EC136-13 <>	90	10383	1.3	20.6130	14.9	0.1574	15.3	0.0235	3.6	0.23	149.9	5.3	148.4	21.1	124.3	351.5	149.9	3.7	
MAM14-EC136-17 <>	99	8287	1.6	21.4328	19.2	0.1515	19.3	0.0236	2.2	0.11	150.1	3.2	143.3	25.8	31.7	463.9	150.1	2.3	
MAM14-EC136-25 <>	70	3417	2.2	23.8248	20.0	0.1368	20.7	0.0236	5.3	0.25	150.6	7.9	130.2	25.3	-228.1	508.6	150.6	5.5	
MAM14-EC136-3 <>	356	21826	1.9	20.6015	7.2	0.1591	7.5	0.0238	2.1	0.28	151.4	3.1	149.9	10.4	125.7	169.5	151.4	2.2	
MAM14-EC136-19 <>	183	12164	1.2	20.5612	9.2	0.1595	9.5	0.0238	2.6	0.28	151.5	4.0	150.2	13.3	130.3	215.8	151.5	2.8	
MAM14-EC136-26 <>	91	10935	1.8	23.3775	25.9	0.1404	26.4	0.0238	5.0	0.19	151.7	7.4	133.4	33.0	-180.6	656.8	151.7	5.2	
MAM14-EC136-27 <>	294	18370	1.0	20.2665	5.3	0.1631	5.8	0.0240	2.5	0.42	152.7	3.7	153.4	8.3	164.1	123.3	152.7	2.6	
MAM14-EC136-28 <>	196	16193	1.6	19.5396	5.4	0.1721	6.0	0.0244	2.5	0.42	155.3	3.8	161.2	8.9	248.9	125.1	155.3	2.7	
MAM14-EC136-8 <>	208	19177	2.0	19.8403	6.3	0.1714	6.8	0.0247	2.5	0.37	157.1	3.9	160.7	10.1	213.6	146.2	157.1	2.7	
MAM14-EC136-22 <>	591	70559	2.7	20.3662	2.6	0.1672	4.2	0.0247	3.4	0.79	157.3	5.2	157.0	6.2	152.7	60.7	157.3	3.7	
MAM14-EC136-14 <>	153	45839	3.8	18.3003	8.2	0.2623	9.3	0.0348	4.3	0.46	220.6	9.3	236.5	19.5	397.7	184.1	220.6	6.5	
MAM14-EC136-9 <>	110	14843	0.7	21.2086	8.8	0.2494	9.5	0.0384	3.5	0.37	242.7	8.3	226.1	19.3	56.9	211.1	242.7	5.8	
MAM14-EC136-12 <>	89	14707	0.8	18.4628	4.2	0.4468	5.6	0.0598	3.6	0.65	374.5	13.2	375.0	17.5	377.8	95.3	374.5	9.2	
MAM14-EC136-16 <>	228	68585	1.5	17.5520	1.9	0.5956	2.4	0.0758	1.5	0.64	471.1	6.7	474.4	9.2	490.5	42.4	471.1	4.7	
MAM14-EC130-12 <>	322	29640	1.5	20.4949	3.4	0.1512	5.2	0.0225	3.9	0.75	143.3	5.5	143.0	6.9	137.9	80.5	143.3	3.9	
MAM14-EC130-19 <>	170	15855	1.3	21.4299	10.2	0.1464	10.5	0.0227	2.7	0.26	145.0	3.9	138.7	13.6	32.1	244.0	145.0	2.7	
MAM14-EC130-23 <>	676	5279	0.8	19.8816	3.0	0.1580	3.2	0.0228	1.1	0.35	145.2	1.6	149.0	4.5	208.8	69.7	145.2	1.1	
MAM14-EC130-9 <>	274	20012	1.0	19.9154	7.2	0.1579	7.4	0.0228	1.7	0.23	145.3	2.4	148.8	10.2	204.9	166.7	145.3	1.7	
MAM14-EC130-22 <>	243	5320	1.4	20.3161	12.2	0.1548	12.3	0.0228	1.9	0.16	145.4	2.7	146.1	16.7	158.4	285.3	145.4	1.9	
MAM14-EC130-17 <>	274	33519	1.3	19.3567	6.1	0.1644	6.4	0.0231	1.8	0.28	147.1	2.6	154.6	9.2	270.4	140.8	147.1	1.8	
MAM14-EC130-13 <>	95	5747	1.1	21.9598	24.6	0.1451	24.8	0.0231	2.8	0.11	147.3	4.1	137.6	31.9	-26.8	603.9	147.3	2.8	
MAM14-EC130-11 <>	1842	88744	2.1	20.3386	0.9	0.1573	1.5	0.0232	1.2	0.81	147.9	1.8	148.3	2.1	155.8	20.8	147.9	1.2	
MAM14-EC130-14 <>	363	12903	1.7	21.0104	3.8	0.1523	7.8	0.0232	6.8	0.87	147.9	9.9	143.9	10.4	79.2	90.4	147.9	6.9	
MAM14-EC130-21 <>	1147	139043	2.0	20.3530	1.6	0.1578	3.2	0.0233	2.8	0.86	148.5	4.1	148.8	4.5	154.1	38.5	148.5	2.9	

MAM14-EC130-16 <>	164	7970	1.2	20.4899	10.0	0.1572	10.4	0.0234	2.8	0.27	148.9	4.1	148.3	14.3	138.5	234.7	148.9	2.9
MAM14-EC130-18 <>	163	5915	1.2	21.2267	9.6	0.1518	10.0	0.0234	2.6	0.26	148.9	3.9	143.5	13.4	54.8	230.3	148.9	2.7
MAM14-EC130-5 <>	2252	208722	2.2	20.2624	0.8	0.1591	1.5	0.0234	1.3	0.84	149.0	1.9	149.9	2.1	164.6	18.8	149.0	1.3
MAM14-EC130-3 <>	631	107067	1.1	20.0344	3.1	0.1610	3.1	0.0234	0.5	0.16	149.1	0.8	151.6	4.4	191.0	71.8	149.1	0.5
MAM14-EC130-4 <>	243	19614	1.5	20.9254	4.6	0.1548	5.0	0.0235	1.9	0.39	149.7	2.9	146.1	6.7	88.9	108.3	149.7	2.0
MAM14-EC130-8 <>	174	10181	1.4	22.2995	6.3	0.1468	7.0	0.0237	3.0	0.43	151.2	4.5	139.1	9.1	-64.1	154.0	151.2	3.2
MAM14-EC130-10 <>	177	3369	1.9	19.4126	11.0	0.1701	11.3	0.0240	2.3	0.21	152.6	3.5	159.5	16.7	263.8	254.1	152.6	2.5
MAM14-EC130-6 <>	378	4381	1.7	20.0299	4.3	0.1665	4.9	0.0242	2.2	0.46	154.1	3.4	156.4	7.0	191.5	100.3	154.1	2.4
MAM14-EC130-15 <>	95	3373	2.7	21.0137	14.9	0.1588	15.4	0.0242	3.8	0.25	154.2	5.9	149.7	21.4	78.8	355.2	154.2	4.1
MAM14-EC130-28 <>	1193	35339	1.7	20.3406	1.1	0.1667	1.9	0.0246	1.5	0.79	156.6	2.3	156.6	2.7	155.6	26.6	156.6	1.6
MAM14-EC130-27 <>	267	6781	1.1	19.3463	8.1	0.1783	10.1	0.0250	6.1	0.60	159.3	9.6	166.6	15.5	271.7	185.0	159.3	6.7
MAM14-EC130-1 <>	918	57774	1.2	19.3494	1.2	0.2274	1.5	0.0319	0.8	0.58	202.5	4.7	208.1	2.7	271.3	27.1	202.5	1.2
MAM14-EC130-7 <>	127	11600	1.1	20.1295	11.5	0.2379	12.0	0.0347	3.4	0.28	220.1	7.3	216.7	23.4	179.9	268.3	220.1	5.1
MAM13-EQC73-16 <>	107	182414	1.1	21.9634	7.2	0.1432	9.6	0.0228	6.4	0.67	145.4	9.2	135.9	12.3	-27.2	174.5	145.4	6.5
MAM13-EQC73-25 <>	220	40796	2.3	19.7784	10.8	0.1607	11.0	0.0230	1.6	0.14	146.9	2.3	151.3	15.4	220.8	251.5	146.9	1.6
MAM13-EQC73-1 <>	172	251268	1.4	19.7100	6.3	0.1616	8.5	0.0231	5.7	0.67	147.2	8.3	152.1	12.0	228.8	146.4	147.2	5.8
MAM13-EQC73-10R <>	297	227819	1.8	20.2615	4.2	0.1572	4.4	0.0231	1.2	0.29	147.2	1.8	148.3	6.0	164.7	97.5	147.2	1.3
MAM13-EQC73-6 <>	101	109370	1.4	21.5120	24.3	0.1483	24.5	0.0231	3.3	0.13	147.5	4.8	140.4	32.2	22.9	590.6	147.5	3.4
MAM13-EQC73-26 <>	144	169240	2.2	23.0077	13.8	0.1391	14.0	0.0232	2.7	0.19	147.9	3.9	132.2	17.4	-141.0	342.4	147.9	2.7
MAM13-EQC73-7 <>	128	213693	1.8	20.6715	15.7	0.1551	16.0	0.0232	3.3	0.21	148.1	4.8	146.4	21.9	117.7	372.2	148.1	3.4
MAM13-EQC73-13 <>	125	198949	1.5	19.7406	15.2	0.1626	15.4	0.0233	2.5	0.16	148.4	3.6	153.0	21.9	225.3	353.7	148.4	2.5
MAM13-EQC73-23 <>	116	199360	1.5	23.3891	18.9	0.1376	20.1	0.0233	6.8	0.34	148.8	10.0	130.9	24.7	-181.8	475.7	148.8	7.0
MAM13-EQC73-21 <>	339	512800	2.0	20.4885	3.3	0.1572	3.6	0.0234	1.5	0.42	148.8	2.2	148.2	5.0	138.6	76.5	148.8	1.6
MAM13-EQC73-18 <>	378	260614	2.4	19.7555	5.5	0.1633	6.6	0.0234	3.7	0.56	149.1	5.4	153.6	9.4	223.5	126.7	149.1	3.8
MAM13-EQC73-14 <>	324	165289	1.5	19.8665	6.7	0.1625	6.9	0.0234	1.8	0.26	149.2	2.7	152.9	9.8	210.5	155.1	149.2	1.9
MAM13-EQC73-12 <>	100	73549	1.1	22.3232	18.5	0.1448	18.9	0.0234	3.5	0.18	149.4	5.1	137.3	24.2	-66.7	455.9	149.4	3.6
MAM13-EQC73-15 <>	322	253392	1.9	20.2317	6.7	0.1599	7.1	0.0235	2.3	0.32	149.5	3.4	150.6	10.0	168.1	157.5	149.5	2.4
MAM13-EQC73-17 <>	115	66570	2.2	20.7322	12.4	0.1563	12.5	0.0235	1.6	0.13	149.7	2.4	147.4	17.2	110.8	293.7	149.7	1.7
MAM13-EQC73-27 <>	139	190197	2.3	19.9330	12.0	0.1628	12.4	0.0235	3.1	0.25	149.9	4.6	153.1	17.6	202.8	279.0	149.9	3.2
MAM13-EQC73-8 <>	174	320199	1.8	19.8021	8.7	0.1639	9.9	0.0235	4.8	0.48	149.9	7.1	154.1	14.1	218.1	200.6	149.9	4.9
MAM13-EQC73-28 <>	158	123041	1.9	21.4447	14.2	0.1515	14.4	0.0236	1.9	0.13	150.2	2.8	143.3	19.2	30.4	342.6	150.2	2.0
MAM13-EQC73-22 <>	373	415601	2.0	20.2744	5.6	0.1606	5.8	0.0236	1.6	0.28	150.4	2.4	151.2	8.2	163.2	130.9	150.4	1.7
MAM13-EQC73-9 <>	137	218671	1.2	21.0019	13.5	0.1551	13.7	0.0236	2.3	0.17	150.5	3.5	146.4	18.7	80.1	322.2	150.5	2.4
MAM13-EQC73-2 <>	270	279281	1.2	21.0397	5.4	0.1550	6.0	0.0236	2.7	0.45	150.7	4.0	146.3	8.2	75.9	128.2	150.7	2.8
MAM13-EQC73-5 <>	249	380980	2.2	21.0505	7.3	0.1551	7.6	0.0237	1.9	0.26	150.9	2.9	146.4	10.3	74.7	173.7	150.9	2.0
MAM13-EQC73-24 <>	166	128788	2.2	18.2622	8.9	0.1797	9.9	0.0238	4.4	0.44	151.6	6.5	167.8	15.3	402.3	199.6	151.6	4.6
MAM13-EQC73-3 <>	98	94092	1.3	21.3946	13.9	0.1548	14.3	0.0240	3.2	0.23	153.0	4.9	146.1	19.5	36.0	335.0	153.0	3.4
MAM13-EQC73-19 <>	102	96551	2.3	20.6326	12.1	0.1610	12.9	0.0241	4.5	0.35	153.5	6.8	151.6	18.2	122.1	286.0	153.5	4.7
MAM13-EQC73-20 <>	460	179698	1.5	19.7747	4.4	0.1792	5.9	0.0257	3.9	0.66	163.6	6.3	167.3	9.0	221.2	101.3	163.6	4.4
MAM13-EQC73-10 <>	276	1802825	4.2	16.1687	2.3	0.6940	10.3	0.0814	10.1	0.97	504.4	48.8	535.2	43.0	668.8	49.6	504.4	34.2
MAM13-EQC73-4 <>	177	1217546	6.0	15.2390	2.6	0.8417	7.7	0.0930	7.3	0.94	573.4	39.8	620.1	35.8	794.3	54.9	573.4	27.9
MAM11-EQC08B-13-	2100	8451	1.1	19.9928	2.0	0.1441	15.3	0.0209	15.2	0.99	133.3	20.0	136.7	19.6	195.9	46.5	133.3	14.0
MAM11-EQC08B-69-	167	6643	1.6	19.7211	13.7	0.1514	16.9	0.0217	9.9	0.59	138.1	13.5	143.2	22.6	227.5	318.9	138.1	9.5

MAM11-EQC08B-2	2399	8809	1.8	19.9200	1.4	0.1547	8.0	0.0223	7.9	0.99	142.5	11.1	146.0	10.9	204.3	31.4	142.5	7.8
MAM11-EQC08B-11	413	13009	1.2	20.2172	7.5	0.1543	8.0	0.0226	2.8	0.35	144.2	3.9	145.7	10.8	169.8	175.0	144.2	2.7
MAM11-EQC08B-44	402	5832	1.1	17.4353	14.0	0.1792	14.3	0.0227	3.2	0.22	144.4	4.5	167.4	22.1	505.2	309.1	144.4	3.2
MAM11-EQC08B-36	171	8224	2.3	19.1893	8.7	0.1635	9.6	0.0228	4.1	0.42	145.0	5.8	153.7	13.7	290.3	199.9	145.0	4.1
MAM11-EQC08B-35	78	4060	2.1	18.7195	34.0	0.1676	34.8	0.0228	7.7	0.22	145.1	11.1	157.4	50.8	346.7	789.2	145.1	7.8
MAM11-EQC08B-87	260	18699	1.4	19.6157	6.3	0.1611	6.5	0.0229	1.6	0.24	146.1	2.3	151.6	9.1	239.9	145.4	146.1	1.6
MAM11-EQC08B-55	165	8561	2.1	19.7682	31.1	0.1601	31.3	0.0230	2.6	0.08	146.3	3.8	150.8	43.8	222.0	736.4	146.3	2.6
MAM11-EQC08B-32	382	21361	2.2	20.3398	5.8	0.1559	6.0	0.0230	1.8	0.30	146.6	2.6	147.1	8.3	155.7	134.8	146.6	1.8
MAM11-EQC08B-45	232	493	1.2	20.7289	15.1	0.1534	15.4	0.0231	3.1	0.20	147.0	4.5	144.9	20.8	111.1	358.6	147.0	3.2
MAM11-EQC08B-28	122	7657	1.4	20.5617	37.8	0.1547	38.0	0.0231	3.5	0.09	147.1	5.1	146.1	51.7	130.2	919.4	147.1	3.5
MAM11-EQC08B-9	302	20197	1.2	19.9363	6.5	0.1598	6.8	0.0231	1.8	0.26	147.2	2.6	150.5	9.5	202.4	152.1	147.2	1.8
MAM11-EQC08B-66	244	17148	1.7	18.0666	7.5	0.1766	8.2	0.0231	3.2	0.39	147.4	4.6	165.1	12.4	426.4	168.3	147.4	3.2
MAM11-EQC08B-14	288	11992	1.2	19.8866	7.5	0.1605	8.0	0.0231	2.6	0.33	147.5	3.8	151.1	11.2	208.2	174.8	147.5	2.7
MAM11-EQC08B-24	209	14349	1.3	22.7730	10.6	0.1402	11.1	0.0232	3.2	0.29	147.6	4.7	133.2	13.8	-115.6	261.7	147.6	3.3
MAM11-EQC08B-54	230	9910	1.8	20.8687	11.4	0.1531	11.7	0.0232	2.6	0.22	147.7	3.8	144.7	15.8	95.2	270.9	147.7	2.7
MAM11-EQC08B-67	259	11783	1.2	21.4034	8.6	0.1493	8.9	0.0232	2.3	0.25	147.7	3.3	141.3	11.8	35.0	207.3	147.7	2.3
MAM11-EQC08B-33	268	15129	2.8	22.6160	10.3	0.1415	10.5	0.0232	2.0	0.19	147.9	2.9	134.3	13.3	-98.6	254.7	147.9	2.0
MAM11-EQC08B-77	342	18466	1.3	19.3886	11.2	0.1650	11.3	0.0232	1.7	0.15	147.9	2.5	155.1	16.3	266.7	258.1	147.9	1.7
MAM11-EQC08B-52	652	74575	1.6	20.4112	5.3	0.1568	5.5	0.0232	1.3	0.23	147.9	1.8	147.9	7.5	147.5	125.1	147.9	1.3
MAM11-EQC08B-19	225	14892	1.9	20.1176	17.7	0.1592	17.9	0.0232	2.9	0.16	148.0	4.2	150.0	25.0	181.3	415.0	148.0	3.0
MAM11-EQC08B-58	216	4065	0.8	19.6218	23.4	0.1636	23.6	0.0233	2.7	0.12	148.3	4.0	153.8	33.6	239.2	546.2	148.3	2.8
MAM11-EQC08B-50	127	6132	1.5	20.7705	13.4	0.1545	14.5	0.0233	5.6	0.38	148.4	8.2	145.9	19.7	106.4	316.8	148.4	5.7
MAM11-EQC08B-73	258	37284	1.4	21.4199	10.8	0.1500	11.1	0.0233	2.4	0.21	148.5	3.5	141.9	14.7	33.2	259.7	148.5	2.4
MAM11-EQC08B-26	863	41999	1.4	20.9956	7.5	0.1532	7.6	0.0233	1.4	0.18	148.7	2.0	144.7	10.3	80.9	178.8	148.7	1.4
MAM11-EQC08B-23	262	23776	1.6	21.0107	7.8	0.1533	8.6	0.0234	3.5	0.41	148.9	5.2	144.8	11.6	79.2	186.5	148.9	3.6
MAM11-EQC08B-40	267	17827	2.0	21.6945	12.8	0.1485	13.1	0.0234	2.7	0.20	148.9	3.9	140.6	17.2	2.6	309.6	148.9	2.8
MAM11-EQC08B-15	460	23821	1.4	19.5801	4.9	0.1647	5.4	0.0234	2.1	0.40	149.0	3.1	154.8	7.7	244.1	113.6	149.0	2.2
MAM11-EQC08B-31	437	51269	1.2	21.3226	4.5	0.1512	4.8	0.0234	1.7	0.36	149.0	2.6	143.0	6.4	44.1	107.5	149.0	1.8
MAM11-EQC08B-93	550	25920	1.1	19.9043	3.0	0.1620	3.6	0.0234	2.0	0.55	149.1	3.0	152.5	5.1	206.1	69.7	149.1	2.1
MAM11-EQC08B-25	483	9686	1.0	20.3336	7.1	0.1586	7.4	0.0234	2.0	0.27	149.1	3.0	149.5	10.3	156.4	166.4	149.1	2.1
MAM11-EQC08B-3	494	25030	1.6	20.6181	3.6	0.1568	4.2	0.0235	2.2	0.53	149.4	3.3	147.9	5.8	123.8	84.1	149.4	2.3
MAM11-EQC08B-51	307	10595	1.7	20.6892	8.5	0.1563	8.7	0.0235	1.9	0.21	149.5	2.7	147.5	12.0	115.7	201.5	149.5	1.9
MAM11-EQC08B-46	331	11556	1.8	20.9862	11.3	0.1541	11.4	0.0235	1.4	0.12	149.5	2.0	145.6	15.5	81.9	269.6	149.5	1.4
MAM11-EQC08B-98	193	36906	1.5	20.5455	16.3	0.1575	16.8	0.0235	4.1	0.24	149.5	6.1	148.5	23.2	132.1	385.6	149.5	4.2
MAM11-EQC08B-38	366	19186	1.8	19.9204	7.6	0.1625	7.8	0.0235	1.8	0.23	149.6	2.6	152.9	11.1	204.2	177.3	149.6	1.8
MAM11-EQC08B-4	259	9764	1.3	19.8764	9.5	0.1630	10.0	0.0235	3.1	0.31	149.7	4.7	153.3	14.2	209.4	220.4	149.7	3.3
MAM11-EQC08B-21	290	41577	1.6	20.9515	6.6	0.1547	7.2	0.0235	2.8	0.39	149.8	4.1	146.1	9.7	85.9	156.7	149.8	2.9
MAM11-EQC08B-89	408	26534	2.5	21.5226	14.3	0.1507	15.2	0.0235	5.1	0.33	149.9	7.5	142.5	20.2	21.7	345.8	149.9	5.3
MAM11-EQC08B-79	479	24789	3.2	20.2468	6.8	0.1603	7.1	0.0235	2.1	0.30	150.0	3.1	151.0	10.0	166.4	159.0	150.0	2.2
MAM11-EQC08B-60	618	38323	1.5	20.0139	5.0	0.1623	5.2	0.0236	1.5	0.28	150.1	2.2	152.7	7.4	193.4	116.5	150.1	1.5
MAM11-EQC08B-5	126	6252	2.8	23.7545	23.8	0.1367	24.3	0.0236	4.7	0.19	150.1	6.9	130.1	29.6	-220.7	606.4	150.1	4.8
MAM11-EQC08B-68	223	7734	1.9	22.8715	8.6	0.1421	8.9	0.0236	2.0	0.23	150.2	3.0	134.9	11.2	-126.3	213.5	150.2	2.1
MAM11-EQC08B-85	410	34127	1.6	19.4064	3.6	0.1675	4.0	0.0236	1.8	0.45	150.2	2.7	157.3	5.9	264.6	82.7	150.2	1.9
MAM11-EQC08B-62	392	22872	1.3	20.3958	5.1	0.1594	5.6	0.0236	2.4	0.42	150.3	3.5	150.2	7.8	149.3	119.5	150.3	2.5
MAM11-EQC08B-29	422	16743	1.8	21.8107	7.6	0.1491	7.9	0.0236	1.9	0.24	150.3	2.8	141.1	10.4	-10.3	184.9	150.3	1.9
MAM11-EQC08B-7	321	19504	1.7	20.7913	5.6	0.1567	5.9	0.0236	1.9	0.31	150.6	2.8	147.8	8.2	104.0	133.3	150.6	1.9
MAM11-EQC08B-16	357	12281	1.3	20.1570	9.5	0.1617	9.7	0.0236	1.8	0.19	150.6	2.7	152.2	13.7	176.8	222.5	150.6	1.9

MAM11-EQC08B-75	507	21680	2.1	20.5105	5.2	0.1591	5.4	0.0237	1.2	0.22	150.8	1.8	149.9	7.5	136.1	123.4	150.8	1.2
MAM11-EQC08B-65	403	21027	1.3	20.9524	8.7	0.1557	8.7	0.0237	1.2	0.14	150.8	1.8	147.0	11.9	85.8	205.5	150.8	1.2
MAM11-EQC08B-1	298	18072	1.3	21.2594	10.6	0.1535	11.0	0.0237	2.6	0.24	150.8	3.9	145.0	14.8	51.2	254.7	150.8	2.8
MAM11-EQC08B-57	353	10052	1.5	21.3798	8.6	0.1528	8.8	0.0237	2.0	0.22	151.0	2.9	144.4	11.8	37.6	205.0	151.0	2.0
MAM11-EQC08B-20	381	36295	1.4	20.7575	4.0	0.1575	4.2	0.0237	1.5	0.35	151.0	2.2	148.5	5.9	107.9	94.1	151.0	1.5
MAM11-EQC08B-97	461	15020	1.2	20.6907	7.5	0.1580	8.5	0.0237	3.9	0.46	151.0	5.9	148.9	11.7	115.5	177.0	151.0	4.1
MAM11-EQC08B-48	438	36385	1.5	20.7042	7.0	0.1579	7.2	0.0237	1.5	0.20	151.0	2.2	148.8	9.9	114.0	165.7	151.0	1.5
MAM11-EQC08B-99	384	56567	1.6	20.4381	11.0	0.1600	11.2	0.0237	2.2	0.19	151.1	3.2	150.7	15.7	144.4	258.1	151.1	2.3
MAM11-EQC08B-76	916	29407	3.8	20.3904	3.1	0.1604	3.7	0.0237	2.1	0.57	151.1	3.1	151.1	5.2	149.9	71.7	151.1	2.2
MAM11-EQC08B-43	161	10483	2.3	22.8217	20.2	0.1433	20.3	0.0237	2.6	0.13	151.1	3.9	136.0	25.9	-120.9	501.8	151.1	2.8
MAM11-EQC08B-81	239	11943	2.2	21.5785	8.9	0.1517	9.6	0.0237	3.5	0.36	151.3	5.2	143.4	12.8	15.5	214.7	151.3	3.6
MAM11-EQC08B-37	166	10214	2.1	22.2529	14.9	0.1473	15.3	0.0238	3.6	0.23	151.5	5.4	139.5	20.0	-59.0	365.2	151.5	3.7
MAM11-EQC08B-10	322	9103	1.5	20.9332	5.2	0.1567	5.4	0.0238	1.7	0.31	151.5	2.6	147.8	7.5	88.0	122.3	151.5	1.8
MAM11-EQC08B-70	318	17794	2.2	20.6973	8.7	0.1587	8.9	0.0238	2.1	0.24	151.8	3.1	149.6	12.4	114.7	204.6	151.8	2.2
MAM11-EQC08B-86	237	13520	1.8	20.3385	14.1	0.1617	14.6	0.0239	3.7	0.25	152.0	5.5	152.2	20.6	155.8	331.0	152.0	3.9
MAM11-EQC08B-88	86	3015	1.5	23.5789	31.5	0.1398	32.1	0.0239	6.3	0.20	152.2	9.4	132.8	40.0	-202.1	805.6	152.2	6.6
MAM11-EQC08B-64	590	18506	1.0	20.0611	4.5	0.1645	4.9	0.0239	2.0	0.41	152.5	3.0	154.6	7.0	187.9	104.2	152.5	2.1
MAM11-EQC08B-90	143	6814	1.9	20.7037	27.2	0.1596	27.6	0.0240	4.5	0.16	152.7	6.8	150.3	38.5	114.0	652.2	152.7	4.8
MAM11-EQC08B-56	146	12606	2.6	22.0795	14.2	0.1497	14.9	0.0240	4.3	0.29	152.7	6.5	141.6	19.7	-40.0	347.5	152.7	4.5
MAM11-EQC08B-80	205	7206	1.2	22.0324	22.0	0.1501	22.4	0.0240	4.2	0.19	152.8	6.4	142.0	29.8	-34.8	540.4	152.8	4.5
MAM11-EQC08B-95	46	3681	1.9	15.8660	44.3	0.2090	46.1	0.0241	12.9	0.28	153.2	19.5	192.7	81.2	709.1	989.5	153.2	13.7
MAM11-EQC08B-49	344	21192	1.7	20.6597	5.9	0.1606	6.5	0.0241	2.8	0.43	153.3	4.2	151.3	9.2	119.0	139.1	153.3	3.0
MAM11-EQC08B-18	273	12502	1.4	21.2382	5.3	0.1564	6.6	0.0241	3.9	0.60	153.5	5.9	147.6	9.0	53.6	126.2	153.5	4.2
MAM11-EQC08B-84	280	13643	1.0	22.0908	12.7	0.1504	13.0	0.0241	2.8	0.22	153.5	4.2	142.3	17.3	-41.2	309.7	153.5	3.0
MAM11-EQC08B-92	271	23957	1.1	20.9613	11.2	0.1588	11.9	0.0241	3.9	0.33	153.8	5.9	149.7	16.5	84.7	266.1	153.8	4.2
MAM11-EQC08B-71	146	7023	1.2	19.6903	21.6	0.1692	21.9	0.0242	3.3	0.15	153.9	5.0	158.7	32.2	231.1	504.7	153.9	3.5
MAM11-EQC08B-42	318	13598	1.7	20.3273	8.4	0.1643	8.5	0.0242	1.5	0.18	154.3	2.3	154.5	12.2	157.1	196.0	154.3	1.6
MAM11-EQC08B-12	63	2680	1.5	3.2155	508.4	1.0434	508.5	0.0243	9.4	0.02	155.0	14.3	725.6	#NUM!	3525.9	123.0	155.0	10.0
MAM11-EQC08B-41	345	16793	2.2	21.2987	9.0	0.1578	9.3	0.0244	2.0	0.22	155.2	3.1	148.8	12.8	46.8	216.3	155.2	2.2
MAM11-EQC08B-63	179	10915	1.4	19.9385	15.7	0.1688	15.9	0.0244	2.4	0.15	155.5	3.7	158.4	23.3	202.2	367.1	155.5	2.6
MAM11-EQC08B-61	213	11384	1.7	19.5827	9.2	0.1729	9.6	0.0246	2.8	0.29	156.4	4.3	162.0	14.4	243.8	212.0	156.4	3.0
MAM11-EQC08B-90	920	68865	1.8	20.4387	3.7	0.1658	4.1	0.0246	4.9	0.46	156.5	2.9	155.8	6.0	144.3	86.4	156.5	2.1
MAM11-EQC08B-17	338	7853	1.9	21.4728	6.5	0.1603	7.6	0.0250	4.0	0.52	159.0	6.2	151.0	10.7	27.3	156.6	159.0	4.4
MAM11-EQC08B-78	231	7194	2.2	22.2513	12.8	0.1547	13.3	0.0250	3.7	0.28	159.0	5.8	146.1	18.1	-58.8	313.3	159.0	4.1
MAM11-EQC08B-6	501	48689	1.5	21.3554	5.7	0.1633	5.7	0.0253	0.9	0.16	161.0	1.4	153.6	8.2	40.4	135.6	161.0	1.0
MAM11-EQC08B-8	676	17792	1.6	20.3267	2.6	0.1717	4.4	0.0253	3.5	0.80	161.2	5.6	160.9	6.5	157.2	61.4	161.2	3.9
MAM11-EQC08B-39	165	6000	2.0	23.7025	28.2	0.1493	28.3	0.0257	3.0	0.10	163.4	4.8	141.3	37.4	-215.2	720.5	163.4	3.4
MAM11-EQC08B-53	223	19823	1.9	18.7918	16.9	0.1902	17.1	0.0259	2.2	0.13	165.0	3.6	176.8	27.7	337.9	385.8	165.0	2.6
MAM11-EQC08B-27	368	27429	2.2	20.0150	5.3	0.2280	9.0	0.0334	7.3	0.81	209.9	15.0	208.6	17.0	193.3	124.2	209.9	10.5
MAM11-EQC08B-59	488	123663	6.7	18.6559	2.7	0.3844	3.7	0.0520	2.5	0.68	326.6	7.9	330.0	10.3	354.4	60.6	326.6	5.5
MAM11-EQC08B-96	212	40105	2.9	18.3408	4.5	0.4036	9.2	0.0537	8.0	0.87	337.1	26.2	344.3	26.8	392.7	101.4	337.1	18.4
MAM11-EQC08B-100	105	29611	1.2	19.9487	8.5	0.3970	9.7	0.0574	4.5	0.47	360.0	15.8	339.4	27.9	200.9	198.6	360.0	11.1
MAM11-EQC08B-34	215	25457	1.8	18.2848	6.0	0.4487	6.0	0.0595	1.0	0.17	372.6	3.6	376.4	19.0	399.6	133.6	372.6	2.5
MAM11-EQC08B-47	691	76016	2.5	15.2947	1.8	0.5796	6.3	0.0643	6.0	0.96	401.7	23.5	464.2	23.4	786.6	37.3	401.7	16.4
MAM11-EQC08B-94	139	15298	1.1	17.3645	4.0	0.6635	5.0	0.0836	3.1	0.61	517.3	15.2	516.7	20.4	514.1	88.0	517.3	10.7
MAM11-EQC08B-74	342	78071	6.4	17.2015	2.8	0.7397	7.5	0.0923	6.9	0.93	569.0	37.6	562.2	32.2	534.8	61.3	569.0	26.4
MAM11-EQC08B-83	328	256032	1.0	13.1023	0.6	1.9709	3.1	0.1873	3.1	0.98	1106.7	31.1	1105.6	21.0	1103.6	12.8	1103.6	8.9

MAM11-EQC08B-72-	557	175604	1.8	11.7780	0.6	2.5669	3.8	0.2193	3.7	0.99	1278.0	43.2	1291.3	27.5	1313.3	10.7	1313.3	7.5
MAM11-EQC08B-30-	883	255159	8.5	9.9354	0.4	2.7077	4.7	0.1954	4.7	0.97	1149.0	17.9	1330.6	12.9	1636.1	7.2	1636.1	5.0
MAM12-LT35-2	2604	196614	1.6	20.3241	0.9	0.1569	1.8	0.0231	1.6	0.86	147.4	2.3	148.0	2.5	157.5	22.0	147.4	1.6
MAM12-LT35-43	1365	84097	2.2	20.2400	1.0	0.1579	1.7	0.0232	1.4	0.82	147.7	2.0	148.9	2.4	167.2	22.6	147.7	1.4
MAM12-LT35-16	398	11047	1.6	19.3858	5.8	0.1651	6.5	0.0232	2.8	0.43	148.0	4.1	155.2	9.3	267.0	134.2	148.0	2.8
MAM12-LT35-42	1877	316153	1.5	20.2370	0.5	0.1585	1.4	0.0233	1.3	0.94	148.2	1.9	149.4	1.9	167.5	10.7	148.2	1.3
MAM12-LT35-40	162	22371	2.0	20.1771	6.5	0.1591	7.1	0.0233	2.8	0.40	148.4	4.1	149.9	9.8	174.4	151.1	148.4	2.9
MAM12-LT35-41	886	142177	2.1	20.2077	1.1	0.1589	1.7	0.0233	1.3	0.75	148.4	1.9	149.8	2.4	170.9	26.6	148.4	1.3
MAM12-LT35-48	220	25602	1.7	20.6692	3.1	0.1556	3.6	0.0233	1.8	0.51	148.7	2.7	146.9	4.9	118.0	72.4	148.7	1.9
MAM12-LT35-37	1025	138525	2.1	20.3202	1.4	0.1586	2.5	0.0234	2.0	0.82	148.9	3.0	149.4	3.4	157.9	32.7	148.9	2.1
MAM12-LT35-7	1393	149868	1.8	20.2321	0.9	0.1593	1.4	0.0234	1.1	0.77	148.9	1.6	150.1	2.0	168.1	21.2	148.9	1.1
MAM12-LT35-4	2386	213652	1.6	20.3049	0.9	0.1587	4.3	0.0234	4.3	0.98	149.0	6.3	149.6	6.0	159.7	21.4	149.0	4.4
MAM12-LT35-45	2657	144607	1.4	20.3299	0.6	0.1589	1.4	0.0234	1.3	0.91	149.3	1.8	149.8	1.9	156.8	13.0	149.3	1.3
MAM12-LT35-31	2073	120528	1.7	20.2664	1.1	0.1595	1.6	0.0234	1.2	0.73	149.3	1.7	150.2	2.2	164.1	25.4	149.3	1.2
MAM12-LT35-46	1258	106543	1.9	20.4263	0.9	0.1582	1.7	0.0234	1.4	0.84	149.4	2.1	149.2	2.3	145.8	21.4	149.4	1.5
MAM12-LT35-10	1512	188916	1.7	20.1746	1.2	0.1603	2.0	0.0235	1.5	0.77	149.5	2.2	151.0	2.7	174.7	28.9	149.5	1.6
MAM12-LT35-5	1306	122533	2.1	20.2708	0.7	0.1599	1.3	0.0235	1.0	0.83	149.8	1.5	150.6	1.8	163.6	16.3	149.8	1.1
MAM12-LT35-49	450	43974	2.4	20.9331	1.6	0.1549	3.4	0.0235	3.0	0.88	149.9	4.4	146.3	4.6	88.0	38.1	149.9	3.1
MAM12-LT35-24	467	57981	1.9	20.3388	2.2	0.1596	2.8	0.0235	1.8	0.63	150.0	2.6	150.3	3.9	155.8	50.8	150.0	1.8
MAM12-LT35-1	1651	212561	1.8	20.1674	0.7	0.1614	1.7	0.0236	1.6	0.92	150.4	2.3	151.9	2.4	175.6	15.7	150.4	1.6
MAM12-LT35-12	1506	78147	2.1	20.3232	0.9	0.1608	2.2	0.0237	2.0	0.91	151.0	3.0	151.4	3.1	157.6	21.2	151.0	2.1
MAM12-LT35-22	1363	161603	2.0	20.3007	1.4	0.1611	2.7	0.0237	2.3	0.84	151.1	3.4	151.7	3.8	160.2	33.8	151.1	2.4
MAM12-LT35-33	411	45988	2.7	20.2478	3.3	0.1616	3.5	0.0237	1.3	0.36	151.2	1.9	152.1	5.0	166.3	76.9	151.2	1.3
MAM12-LT35-39	329	29927	2.6	19.8078	4.4	0.1652	5.2	0.0237	2.8	0.53	151.2	4.2	155.3	7.5	217.4	102.9	151.2	2.9
MAM12-LT35-44	1516	30124	2.2	20.4133	1.1	0.1603	2.1	0.0237	1.8	0.86	151.2	2.7	151.0	3.0	147.2	25.9	151.2	1.9
MAM12-LT35-9	231	23423	1.9	20.1556	3.5	0.1625	4.0	0.0238	2.0	0.49	151.3	3.0	152.9	5.7	176.9	81.9	151.3	2.1
MAM12-LT35-20	1006	173955	2.1	20.2563	1.6	0.1619	2.0	0.0238	1.2	0.60	151.6	1.8	152.4	2.8	165.3	37.1	151.6	1.3
MAM12-LT35-28	1366	201926	2.3	20.2531	1.0	0.1620	1.6	0.0238	1.2	0.76	151.6	1.8	152.5	2.2	165.7	23.6	151.6	1.2
MAM12-LT35-14	1615	116984	1.8	20.2899	1.0	0.1619	1.7	0.0238	1.4	0.82	151.8	2.1	152.3	2.4	161.4	22.8	151.8	1.5
MAM12-LT35-11	1354	131766	2.3	20.3266	0.9	0.1617	1.5	0.0238	1.2	0.78	151.9	1.8	152.2	2.1	157.2	22.0	151.9	1.2
MAM12-LT35-17	1684	234612	2.1	20.4303	0.7	0.1610	1.5	0.0239	1.3	0.89	152.0	2.0	151.6	2.1	145.3	16.2	152.0	1.4
MAM12-LT35-6	1902	288831	1.8	20.1848	0.7	0.1630	1.5	0.0239	1.4	0.90	152.0	2.0	153.3	2.1	173.6	15.5	152.0	1.4
MAM12-LT35-30	268	46531	1.6	20.6905	5.6	0.1591	6.0	0.0239	2.2	0.37	152.1	3.4	149.9	8.4	115.5	131.6	152.1	2.3
MAM12-LT35-27	1183	121120	2.3	20.1720	1.6	0.1632	2.0	0.0239	1.1	0.58	152.1	1.7	153.5	2.8	175.0	37.4	152.1	1.2
MAM12-LT35-26	985	121076	2.1	20.3831	1.7	0.1615	3.0	0.0239	2.5	0.83	152.1	3.7	152.0	4.2	150.7	39.3	152.1	2.6
MAM12-LT35-15	1735	92529	2.0	20.3542	1.1	0.1620	2.5	0.0239	2.2	0.89	152.4	3.3	152.5	3.5	154.0	26.9	152.4	2.3
MAM12-LT35-23	1840	216070	1.8	20.1018	1.0	0.1643	1.9	0.0240	1.6	0.86	152.6	2.5	154.4	2.7	183.2	22.4	152.6	1.7
MAM12-LT35-34	1762	223358	1.9	20.2359	0.9	0.1632	1.7	0.0240	1.5	0.87	152.6	2.3	153.5	2.5	167.6	19.9	152.6	1.6
MAM12-LT35-29	1814	186542	1.7	20.3982	0.9	0.1639	2.9	0.0242	2.7	0.95	154.4	4.2	154.1	4.1	149.0	21.2	154.4	2.9
MAM12-LT35-13	1138	145409	1.7	20.0744	1.6	0.1682	2.6	0.0245	2.0	0.78	155.9	3.1	157.8	3.8	186.3	37.8	155.9	2.2
MAM12-LT35-19	1569	167780	1.7	20.2686	1.1	0.1671	1.6	0.0246	1.1	0.71	156.5	1.7	156.9	2.3	163.9	25.7	156.5	1.2
MAM12-LT35-36	77	10470	2.7	19.3568	19.7	0.1760	20.2	0.0247	4.4	0.22	157.4	6.9	164.6	30.7	270.4	454.9	157.4	4.8
MAM12-LT35-18	485	68203	2.1	20.7344	2.6	0.1655	4.5	0.0249	3.6	0.81	158.5	5.7	155.5	6.5	110.5	61.4	158.5	4.0
MAM12-LT35-8	382	36151	1.5	20.5566	4.1	0.1673	4.6	0.0249	2.0	0.44	158.8	3.2	157.1	6.7	130.8	97.0	158.8	2.2
MAM12-LT35-32	956	117463	2.0	20.2948	1.7	0.1813	3.2	0.0267	2.7	0.85	169.8	4.6	169.2	5.0	160.9	40.0	169.8	3.2

MAM12-LT35-35-	2818	78706	1.0	20.3292	0.4	0.2084	3.9	0.0307	3.8	0.99	195.1	7.4	192.2	6.8	156.9	10.3	195.1	5.2
MAM12-LT35-25-	245	59591	2.1	13.9885	1.8	0.4663	6.8	0.0473	6.6	0.96	298.0	19.2	388.7	22.4	971.4	36.6	298.0	13.5
MAM12-LT35-47	303	46985	1.2	18.9017	2.2	0.3658	6.7	0.0501	6.3	0.94	315.4	19.5	316.5	18.3	324.7	50.5	315.4	13.7

Samples/ages with strikethrough were omitted from age calculations based on age and uncertainty. WMA calculations were restricted to overlapping ages within 2-sigma uncertainty.

MAM11-CS47C-50	168	31525	1.6	20.3528	8.2	0.1596	8.4	0.0236	1.5	0.18	150.1	2.2	150.3	11.7	154.2	192.6	150.1	1.6
MAM11-CS47C-5C	194	31674	2.9	20.8909	6.6	0.1559	6.8	0.0236	1.9	0.27	150.5	2.8	147.1	9.4	92.8	156.0	150.5	2.0
MAM11-CS47C-44	439	51256	0.9	20.2335	2.8	0.1612	3.7	0.0237	2.3	0.64	150.7	3.5	151.7	5.2	167.9	66.1	150.7	2.4
MAM11-CS47C-6	116	30702	1.9	20.7552	14.9	0.1576	15.9	0.0237	5.8	0.36	151.1	8.7	148.6	22.0	108.1	352.5	151.1	6.1
MAM11-CS47C-12	194	17643	1.7	20.0445	8.0	0.1636	9.0	0.0238	4.0	0.44	151.5	6.0	153.9	12.8	189.8	187.0	151.5	4.2
MAM11-CS47C-5R	230	26325	3.0	20.4343	4.5	0.1611	5.1	0.0239	2.2	0.44	152.1	3.4	151.7	7.1	144.8	106.4	152.1	2.4
MAM11-CS47C-53	349	59448	0.9	20.4926	3.3	0.1610	3.8	0.0239	1.8	0.49	152.4	2.8	151.6	5.3	138.1	76.8	152.4	1.9
MAM11-CS47C-8	120	18758	2.0	21.0639	6.7	0.1569	7.4	0.0240	3.3	0.44	152.7	4.9	148.0	10.2	73.2	158.3	152.7	3.4
MAM11-CS47C-31	146	11322	1.4	21.1381	7.9	0.1570	8.2	0.0241	2.1	0.25	153.3	3.1	148.1	11.3	64.8	189.1	153.3	2.2
MAM11-CS47C-18	159	40016	1.6	19.6785	7.4	0.1687	7.9	0.0241	2.8	0.36	153.3	4.3	158.3	11.6	232.5	170.6	153.3	3.0
MAM11-CS47C-17	143	38097	2.0	23.2671	8.1	0.1431	8.2	0.0242	1.6	0.20	153.9	2.4	135.8	10.5	-168.8	201.3	153.9	1.7
MAM11-CS47C-22	244	28594	1.5	19.8693	7.8	0.1681	8.7	0.0242	3.9	0.44	154.3	5.9	157.8	12.8	210.2	181.5	154.3	4.1
MAM11-CS47C-38	208	48598	2.4	19.5303	5.4	0.2483	6.9	0.0352	4.3	0.63	222.8	9.4	225.2	13.9	249.9	123.5	222.8	6.6
MAM11-CS47C-9	83	35750	1.0	18.1695	11.9	0.3306	12.5	0.0436	3.9	0.31	274.9	10.4	290.1	31.6	413.7	266.7	274.9	7.3
MAM11-CS47C-3	147	51806	1.8	19.0638	4.2	0.3632	5.0	0.0502	2.6	0.53	315.8	8.1	314.6	13.5	305.3	96.5	315.8	5.7
MAM11-CS47C-24	118	23283	1.2	18.8310	3.3	0.3804	4.4	0.0520	2.9	0.66	326.5	9.3	327.3	12.4	333.2	75.4	326.5	6.5
MAM11-CS47C-51	147	37474	1.1	18.0838	3.0	0.4568	3.4	0.0599	1.7	0.49	375.1	6.2	382.0	10.9	424.3	66.5	375.1	4.3
MAM11-CS47C-2	277	8880	1.8	18.0747	2.4	0.4802	3.0	0.0629	1.8	0.60	393.5	6.8	398.2	9.9	425.4	53.8	393.5	4.8
MAM11-CS47C-16	162	37421	1.4	17.1859	4.3	0.6083	4.4	0.0758	1.2	0.28	471.1	5.6	482.5	17.1	536.8	93.5	471.1	3.9
MAM11-CS47C-30	165	37070	2.4	17.7278	2.0	0.6557	3.1	0.0843	2.3	0.76	521.8	11.8	512.0	12.4	468.5	43.9	521.8	8.2
MAM11-CS47C-20	442	262808	1.1	17.1529	0.6	0.6840	1.3	0.0851	1.2	0.88	526.4	5.9	529.2	5.5	541.0	14.1	526.4	4.2
MAM11-CS47C-1	80	39583	1.4	17.0852	5.0	0.6928	5.9	0.0858	3.1	0.53	530.9	16.0	534.5	24.5	549.7	108.9	530.9	11.2
MAM11-CS47C-39	123	48159	0.9	17.2641	2.3	0.6861	2.8	0.0859	1.6	0.58	531.3	8.4	530.5	11.8	526.9	50.9	531.3	5.9
MAM11-CS47C-54	439	162925	2.7	16.6967	1.8	0.7129	3.5	0.0863	3.0	0.85	533.8	15.2	546.5	14.7	599.7	39.8	533.8	10.6
MAM11-CS47C-23	99	50937	1.6	17.0730	3.3	0.6992	3.8	0.0866	1.8	0.48	535.2	9.3	538.3	15.7	551.2	72.0	535.2	6.5
MAM11-CS47C-14	187	39616	1.5	16.9780	2.9	0.7062	3.4	0.0870	1.8	0.52	537.5	9.1	542.5	14.3	563.4	63.2	537.5	6.4
MAM11-CS47C-43	365	36383	3.0	15.4396	2.1	0.7798	3.8	0.0873	3.1	0.82	539.7	16.1	585.4	16.8	766.8	45.0	539.7	11.3
MAM11-CS47C-32	193	155796	1.2	16.9035	1.7	0.7359	4.8	0.0902	4.5	0.93	556.9	24.1	560.0	20.8	572.9	37.4	556.9	16.9
MAM11-CS47C-26	236	110764	2.9	14.1826	3.4	0.8919	5.2	0.0917	3.9	0.76	565.8	21.2	647.4	24.8	943.2	69.1	565.8	14.9
MAM11-CS47C-37	171	71043	2.1	17.0242	1.6	0.7431	1.8	0.0918	0.9	0.51	565.9	5.0	564.2	8.0	557.5	34.5	565.9	3.5
MAM11-CS47C-21	73	68483	0.5	16.6968	3.2	0.8055	3.6	0.0975	1.7	0.46	600.0	9.5	599.9	16.4	599.7	69.8	600.0	6.6
MAM11-CS47C-4	71	27990	6.3	16.9705	3.9	0.8203	4.4	0.1010	1.9	0.44	620.1	11.4	608.2	20.0	564.3	85.5	620.1	8.0
MAM11-CS47C-49	71	20022	0.9	16.3320	4.1	0.8551	4.7	0.1013	2.3	0.48	621.9	13.4	627.4	21.9	647.3	87.9	621.9	9.4
MAM11-CS47C-46	158	88888	2.5	16.4794	1.7	0.8838	2.2	0.1056	1.4	0.62	647.3	8.3	643.0	10.5	628.0	37.3	647.3	5.8
MAM11-CS47C-40	123	120243	1.1	15.6865	1.4	1.0301	2.0	0.1172	1.4	0.69	714.4	9.3	719.0	10.3	733.3	30.6	714.4	6.5
MAM11-CS47C-7	51	21530	2.5	15.7490	5.0	1.0289	5.2	0.1175	1.4	0.27	716.3	9.4	718.4	26.5	724.9	105.2	716.3	6.6
MAM11-CS47C-25	285	231657	1.2	15.2885	0.7	1.1631	1.1	0.1290	0.9	0.80	782.0	6.6	783.4	6.1	787.5	13.9	782.0	4.6
MAM11-CS47C-45	168	180804	2.0	14.6640	1.4	1.3745	1.9	0.1462	1.3	0.70	879.5	10.8	878.1	11.1	874.5	28.1	879.5	7.6
MAM11-CS47C-41	238	155032	1.8	14.5156	0.8	1.3950	2.1	0.1469	1.9	0.93	883.4	15.9	886.8	12.3	895.5	16.2	883.4	11.2
MAM11-CS47C-52	150	101325	2.6	14.1493	1.1	1.4063	3.3	0.1443	3.1	0.94	869.0	25.5	891.6	19.8	948.0	23.0	948.0	16.1
MAM11-CS47C-35	143	114787	2.8	13.7417	1.0	1.6647	2.2	0.1659	2.0	0.89	989.5	18.1	995.2	14.1	1007.6	20.6	1007.6	14.4

MAM11-CS47C-11	125	87259	2.2	13.2366	0.8	1.8806	5.6	0.1805	5.5	0.99	1069.9	54.3	1074.3	36.9	1083.1	15.4	1083.1	10.8
MAM11-CS47C-13	80	154407	1.9	13.2334	1.6	1.8985	2.0	0.1822	1.2	0.59	1079.1	11.6	1080.6	13.1	1083.6	31.9	1083.6	22.4
MAM11-CS47C-48	227	402176	2.1	13.1425	0.5	1.7540	3.8	0.1672	3.7	0.99	996.6	34.3	1028.6	24.3	1097.4	10.6	1097.4	7.4
MAM11-CS47C-42	129	190390	1.3	13.0881	1.2	1.9737	2.2	0.1873	1.9	0.84	1107.0	18.8	1106.6	14.9	1105.7	23.9	1105.7	16.8
MAM11-CS47C-36	111	224959	1.0	12.8079	1.4	2.1492	2.3	0.1996	1.8	0.79	1173.4	19.5	1164.8	15.8	1148.8	27.5	1148.8	19.3
MAM11-CS47C-15	148	172757	2.8	12.6536	1.0	2.2230	2.9	0.2040	2.8	0.95	1196.8	30.3	1188.3	20.5	1172.9	18.9	1172.9	13.2
MAM11-CS47C-34	70	41849	1.5	11.2604	1.1	2.8330	2.0	0.2314	1.7	0.83	1341.7	20.6	1364.3	15.3	1400.0	21.6	1400.0	15.1
MAM11-CS47C-33	23	27265	0.6	11.2404	3.7	3.0985	4.4	0.2526	2.3	0.52	1451.9	29.6	1432.3	33.6	1403.4	71.7	1403.4	50.2
MAM11-CS47C-19	32	43529	0.9	11.1001	2.5	3.1337	3.4	0.2523	2.2	0.66	1450.2	28.8	1441.0	25.9	1427.4	48.3	1427.4	33.8
MAM11-CS47C-47	112	98077	0.7	10.8703	0.6	3.1960	1.0	0.2520	0.9	0.83	1448.6	11.2	1456.2	8.1	1467.2	11.2	1467.2	7.9
MAM11-CS47C-28	16	45756	1.0	6.1804	1.6	9.0015	4.3	0.4035	3.9	0.92	2185.1	73.2	2338.2	39.1	2474.6	27.5	2474.6	19.2
MAM11-CS47C-27	144	486585	1.1	4.6551	0.3	16.6121	1.7	0.5609	1.6	0.98	2870.2	37.7	2912.7	15.9	2942.2	5.0	2942.2	3.5

Samples/Ages in bold were used to determine eruption age of this sample.

Detrital Zircon Samples																		
MAM14-EC140-33 <>	222	3454	1.2	18.3300	14.9	0.1698	15.4	0.0226	3.7	0.24	143.9	5.3	159.3	22.7	394.0	336.4	143.9	3.7
MAM14-EC140-47 <>	553	39546	2.1	20.7591	3.7	0.1512	3.8	0.0228	0.7	0.19	145.1	1.0	143.0	5.0	107.7	87.6	145.1	0.7
MAM14-EC140-8 <>	138	10994	1.8	20.2735	17.0	0.1552	17.1	0.0228	1.7	0.10	145.5	2.5	146.5	23.3	163.3	399.7	145.5	1.7
MAM14-EC140-11 <>	541	54466	0.7	20.3109	2.9	0.1559	3.6	0.0230	2.2	0.59	146.4	3.1	147.1	5.0	159.0	68.7	146.4	2.2
MAM14-EC140-29 <>	167	17072	1.3	20.6495	7.1	0.1534	7.4	0.0230	2.1	0.29	146.4	3.0	144.9	9.9	120.2	166.4	146.4	2.1
MAM14-EC140-38 <>	218	20088	1.4	21.6753	7.4	0.1466	7.7	0.0230	2.3	0.29	146.9	3.3	138.9	10.0	4.7	177.2	146.9	2.3
MAM14-EC140-57 <>	438	33464	1.4	20.2692	4.2	0.1574	4.5	0.0231	1.5	0.33	147.4	2.1	148.4	6.2	163.8	98.7	147.4	1.5
MAM14-EC140-3 <>	351	19339	1.6	20.1452	4.1	0.1584	4.3	0.0231	1.4	0.32	147.5	2.0	149.3	6.0	178.1	95.7	147.5	1.4
MAM14-EC140-1 <>	235	13154	1.0	20.2845	7.7	0.1575	8.0	0.0232	2.4	0.30	147.7	3.5	148.5	11.1	162.1	180.0	147.7	2.4
MAM14-EC140-12 <>	277	9868	1.7	21.1906	6.0	0.1508	6.2	0.0232	1.5	0.24	147.7	2.2	142.6	8.2	58.9	142.5	147.7	1.5
MAM14-EC140-35 <>	39	2568	2.2	13.1727	105.8	0.2427	106.0	0.0232	7.4	0.07	147.8	10.8	220.6	213.3	1092.8	282.1	147.8	7.5
MAM14-EC140-26 <>	194	10290	1.1	20.6352	13.7	0.1550	13.8	0.0232	2.2	0.16	147.8	3.2	146.3	18.8	121.8	323.1	147.8	2.2
MAM14-EC140-52 <>	335	22153	1.1	20.5308	7.8	0.1560	8.0	0.0232	1.8	0.23	148.1	2.7	147.2	11.0	133.7	183.6	148.1	1.9
MAM14-EC140-9 <>	64	5605	1.9	20.8764	42.3	0.1536	42.6	0.0233	4.7	0.11	148.2	6.9	145.1	57.6	94.4	1044.7	148.2	4.8
MAM14-EC140-56 <>	201	8547	1.8	19.4995	12.0	0.1647	13.1	0.0233	5.2	0.40	148.4	7.6	154.8	18.8	253.6	276.7	148.4	5.3
MAM14-EC140-24 <>	246	11697	0.9	19.7952	10.7	0.1623	11.1	0.0233	2.9	0.26	148.4	4.2	152.7	15.7	218.9	248.9	148.4	3.0
MAM14-EC140-34 <>	267	18787	1.4	21.4456	4.1	0.1500	4.5	0.0233	1.8	0.41	148.7	2.7	141.9	5.9	30.3	98.3	148.7	1.9
MAM14-EC140-60 <>	282	24183	1.3	21.7076	5.2	0.1483	5.4	0.0233	1.4	0.27	148.7	2.1	140.4	7.1	1.1	125.0	148.7	1.5
MAM14-EC140-59 <>	361	5133	2.0	20.5284	6.0	0.1571	6.1	0.0234	1.2	0.20	149.1	1.8	148.2	8.5	134.0	141.3	149.1	1.3
MAM14-EC140-58 <>	98	9164	2.7	23.6799	25.0	0.1364	25.1	0.0234	2.8	0.11	149.2	4.2	129.8	30.6	-212.8	635.2	149.2	2.9
MAM14-EC140-39 <>	343	31961	1.1	20.6867	5.2	0.1561	5.8	0.0234	2.5	0.43	149.2	3.7	147.3	8.0	116.0	123.8	149.2	2.6
MAM14-EC140-36 <>	195	11385	1.6	20.9101	9.5	0.1545	9.6	0.0234	1.9	0.19	149.3	2.8	145.8	13.1	90.6	224.4	149.3	1.9
MAM14-EC140-5 <>	224	12841	1.3	19.5633	7.5	0.1652	8.3	0.0234	3.3	0.40	149.3	4.9	155.2	11.9	246.1	174.1	149.3	3.4
MAM14-EC140-21 <>	322	25022	2.2	19.7421	5.2	0.1637	6.1	0.0234	3.2	0.52	149.4	4.7	154.0	8.7	225.1	120.4	149.4	3.3
MAM14-EC140-4 <>	519	73901	2.0	20.2408	4.3	0.1597	4.5	0.0234	1.5	0.33	149.4	2.2	150.5	6.3	167.1	99.5	149.4	1.6
MAM14-EC140-16 <>	167	18820	1.6	22.2848	13.0	0.1451	13.1	0.0235	1.8	0.14	149.4	2.7	137.6	16.9	-62.5	318.6	149.4	1.9
MAM14-EC140-49 <>	196	13579	1.8	20.5970	8.5	0.1570	9.3	0.0235	3.8	0.41	149.5	5.7	148.1	12.8	126.2	200.2	149.5	4.0
MAM14-EC140-20 <>	440	39146	1.6	20.1361	3.2	0.1606	3.4	0.0235	1.0	0.30	149.5	1.5	151.3	4.8	179.2	75.3	149.5	1.0
MAM14-EC140-64 <>	297	25479	2.0	20.5936	6.3	0.1571	6.4	0.0235	1.3	0.20	149.5	1.9	148.2	8.9	126.6	148.9	149.5	1.3
MAM14-EC140-53 <>	320	40810	2.4	21.8610	5.6	0.1482	5.8	0.0235	1.4	0.25	149.7	2.1	140.3	7.6	-15.9	135.3	149.7	1.5
MAM14-EC140-2 <>	122	4423	1.3	22.7864	16.8	0.1421	17.3	0.0235	4.3	0.25	149.7	6.4	134.9	21.9	-117.1	415.4	149.7	4.5

MAM14-EC140-6 <>	643	39269	2.0	20.0924	3.2	0.1614	3.2	0.0235	0.6	0.18	149.9	0.9	151.9	4.5	184.2	73.7	149.9	0.6
MAM14-EC140-50 <>	342	29722	0.8	21.1938	6.4	0.1530	6.7	0.0235	2.0	0.30	149.9	3.0	144.6	9.0	58.6	152.8	149.9	2.1
MAM14-EC140-23 <>	240	11065	1.5	21.6074	4.3	0.1501	4.6	0.0235	1.7	0.37	149.9	2.5	142.0	6.1	12.3	103.3	149.9	1.8
MAM14-EC140-54 <>	305	23815	1.2	20.7774	9.2	0.1563	9.4	0.0236	1.8	0.20	150.1	2.7	147.5	12.9	105.6	218.8	150.1	1.9
MAM14-EC140-32 <>	397	17723	1.9	20.8271	5.3	0.1560	5.5	0.0236	1.5	0.27	150.1	2.2	147.2	7.6	100.0	125.8	150.1	1.5
MAM14-EC140-63 <>	98	10020	2.1	24.4654	24.1	0.1328	24.5	0.0236	4.7	0.19	150.1	7.0	126.6	29.2	-295.4	622.4	150.1	4.9
MAM14-EC140-19 <>	406	31607	3.3	20.6023	3.7	0.1578	4.2	0.0236	2.0	0.48	150.2	3.0	148.8	5.8	125.6	87.0	150.2	2.1
MAM14-EC140-40 <>	490	43879	2.2	20.3572	3.9	0.1597	4.1	0.0236	1.2	0.28	150.2	1.7	150.4	5.8	153.7	92.5	150.2	1.2
MAM14-EC140-14 <>	118	15290	1.5	22.6182	22.5	0.1438	22.6	0.0236	1.7	0.08	150.3	2.6	136.4	28.8	-98.8	559.1	150.3	1.8
MAM14-EC140-30 <>	82	6380	2.0	23.3693	25.0	0.1394	25.5	0.0236	5.0	0.20	150.5	7.4	132.5	31.6	-179.7	631.7	150.5	5.2
MAM14-EC140-31 <>	86	3217	2.2	22.3683	26.1	0.1456	26.9	0.0236	6.5	0.24	150.5	9.7	138.0	34.8	-71.6	647.8	150.5	6.8
MAM14-EC140-44 <>	290	22683	1.7	20.2753	5.3	0.1607	5.8	0.0236	2.3	0.39	150.6	3.4	151.3	8.1	163.1	124.2	150.6	2.4
MAM14-EC140-15 <>	436	39037	1.1	20.3427	2.2	0.1603	3.1	0.0236	2.1	0.69	150.7	3.1	151.0	4.3	155.4	51.9	150.7	2.2
MAM14-EC140-17 <>	330	17702	1.2	20.8642	7.1	0.1563	7.5	0.0237	2.4	0.32	150.7	3.5	147.5	10.3	95.8	168.1	150.7	2.5
MAM14-EC140-28 <>	805	36819	1.0	20.1182	2.0	0.1623	2.4	0.0237	1.3	0.55	150.9	2.0	152.7	3.4	181.3	46.7	150.9	1.4
MAM14-EC140-18 <>	193	19987	2.3	22.7373	12.8	0.1437	13.0	0.0237	1.9	0.15	151.0	2.8	136.3	16.6	-111.8	317.2	151.0	2.0
MAM14-EC140-25 <>	208	17595	1.4	21.2255	9.3	0.1543	9.6	0.0238	2.7	0.28	151.4	4.1	145.7	13.1	55.0	221.2	151.4	2.8
MAM14-EC140-61 <>	123	9212	1.5	21.0887	15.3	0.1562	15.7	0.0239	3.6	0.23	152.2	5.4	147.4	21.5	70.4	365.4	152.2	3.8
MAM14-EC140-37 <>	387	48436	0.8	20.7475	4.6	0.1588	5.0	0.0239	1.9	0.39	152.2	2.9	149.6	7.0	109.0	109.6	152.2	2.0
MAM14-EC140-62 <>	356	18363	2.5	20.4505	4.5	0.1613	4.8	0.0239	1.4	0.30	152.4	2.2	151.8	6.7	143.0	106.6	152.4	1.5
MAM14-EC140-13 <>	159	10468	2.1	21.4563	9.9	0.1539	10.6	0.0240	3.9	0.37	152.6	5.9	145.4	14.4	29.1	237.2	152.6	4.1
MAM14-EC140-22 <>	301	14143	2.1	20.1168	6.3	0.1651	7.0	0.0241	3.1	0.45	153.4	4.7	155.1	10.1	181.4	145.9	153.4	3.3
MAM14-EC140-65 <>	348	33615	3.1	19.5782	4.5	0.2129	5.2	0.0302	2.7	0.52	192.0	5.2	196.0	9.3	244.3	103.1	192.0	3.6
MAM14-EC140-43 <>	173	19358	1.5	20.4054	5.7	0.2318	6.8	0.0343	3.7	0.55	217.4	7.9	211.7	13.0	148.1	133.7	217.4	5.5
MAM14-EC140-41 <>	227	26320	1.0	19.6884	5.5	0.2611	6.0	0.0373	2.3	0.38	236.0	5.2	235.6	12.5	231.3	127.3	236.0	3.7
MAM14-EC140-51 <>	182	19432	1.2	19.1399	5.0	0.2794	6.9	0.0388	4.6	0.68	245.3	11.2	250.2	15.2	296.2	115.2	245.3	7.8
MAM14-EC140-42 <>	45	10276	1.2	20.1880	13.4	0.3032	15.2	0.0444	7.1	0.47	280.0	19.4	268.9	35.9	173.2	314.4	280.0	13.6
MAM14-EC140-10 <>	226	31348	1.1	19.3314	5.8	0.3245	7.2	0.0455	4.2	0.59	286.8	11.9	285.4	17.9	273.4	133.2	286.8	8.3
MAM14-EC140-7 <>	559	122276	2.4	19.0257	1.5	0.3454	1.9	0.0477	1.1	0.59	300.1	3.3	301.2	4.9	309.9	34.4	300.1	2.3
MAM14-EC140-46 <>	48	19859	1.5	17.9201	9.0	0.6241	9.2	0.0811	1.8	0.20	502.7	8.8	492.4	35.9	444.5	201.0	502.7	6.2
MAM14-EC140-45 <>	521	81385	2.6	16.5488	0.9	0.7751	1.4	0.0930	1.1	0.76	573.4	5.9	582.7	6.2	618.9	19.6	573.4	4.1
MAM14-EC140-27 <>	217	140862	2.1	11.0242	0.3	3.1243	1.5	0.2498	1.5	0.97	1437.5	19.3	1438.7	11.9	1440.5	6.6	1440.5	4.7
MAM12-CS47A-58	1091	3466	2.5	17.4978	2.4	0.4043	4.7	0.0513	4.0	0.86	322.5	12.6	344.7	13.6	497.3	52.7	322.5	8.8
MAM12-CS47A-82	246	77178	1.3	18.7689	4.0	0.4395	4.5	0.0598	2.2	0.48	374.6	8.0	369.9	14.0	340.8	89.8	374.6	5.6
MAM12-CS47A-52	106	53560	1.1	18.9329	5.0	0.4443	5.4	0.0610	2.0	0.38	381.8	7.6	373.3	16.8	321.0	113.4	381.8	5.3
MAM12-CS47A-39	90	26326	0.9	19.0155	6.7	0.4545	7.6	0.0627	3.7	0.49	391.9	14.1	380.4	24.2	311.1	151.6	391.9	9.8
MAM12-CS47A-37	189	31712	3.2	18.2983	3.4	0.4935	4.2	0.0655	2.4	0.58	409.0	9.6	407.3	14.1	397.9	76.7	409.0	6.7
MAM12-CS47A-70	124	48810	1.1	18.0588	4.4	0.5673	4.7	0.0743	1.7	0.36	462.0	7.4	456.2	17.2	427.4	97.5	462.0	5.2
MAM12-CS47A-100	93	47413	0.5	17.9769	4.5	0.5715	5.4	0.0745	3.0	0.56	463.3	13.5	459.0	19.9	437.5	99.5	463.3	9.4
MAM12-CS47A-55	116	74596	1.4	17.5445	4.0	0.5993	5.0	0.0763	3.0	0.60	473.8	13.6	476.8	18.9	491.4	87.4	473.8	9.5
MAM12-CS47A-96	170	65458	6.5	15.9818	5.6	0.6827	8.4	0.0791	6.2	0.74	491.0	29.4	528.4	34.5	693.7	119.6	491.0	20.6
MAM12-CS47A-2	368	83601	11.6	17.5562	1.6	0.6317	2.0	0.0804	1.1	0.58	498.7	5.5	497.2	7.7	490.0	35.1	498.7	3.8
MAM12-CS47A-44	135	52238	1.2	17.4643	2.8	0.6431	3.3	0.0815	1.9	0.57	504.8	9.2	504.2	13.3	501.6	60.8	504.8	6.4
MAM12-CS47A-19	194	86116	1.8	17.6054	2.7	0.6407	4.5	0.0818	3.6	0.79	506.9	17.3	502.7	17.7	483.8	60.0	506.9	12.1
MAM12-CS47A-46	103	32929	5.3	17.5694	3.9	0.6524	4.7	0.0831	2.6	0.55	514.8	12.7	510.0	18.8	488.3	86.9	514.8	8.9

MAM12-CS47A-75	284	129910	104.8	17.2330	1.7	0.6716	2.2	0.0839	1.3	0.61	519.6	6.6	521.7	8.9	530.9	37.8	519.6	4.6
MAM12-CS47A-31	95	36582	2.5	17.3993	3.4	0.6663	3.9	0.0841	1.9	0.48	520.4	9.3	518.4	15.9	509.7	75.6	520.4	6.5
MAM12-CS47A-64	326	83209	2.5	17.3013	2.1	0.6733	2.6	0.0845	1.6	0.60	522.9	7.8	522.7	10.6	522.1	45.5	522.9	5.5
MAM12-CS47A-60	146	77206	4.4	17.4059	1.7	0.6732	2.6	0.0850	1.9	0.75	525.8	9.8	522.6	10.6	508.9	37.9	525.8	6.9
MAM12-CS47A-95	63	22237	2.3	17.7817	4.4	0.6620	4.6	0.0854	1.4	0.29	528.1	6.9	515.8	18.8	461.7	98.5	528.1	4.8
MAM12-CS47A-9	117	102179	0.7	17.2127	3.1	0.6915	3.9	0.0863	2.3	0.60	533.8	12.0	533.7	16.3	533.4	68.8	533.8	8.4
MAM12-CS47A-66	25	6735	0.8	16.5716	11.6	0.7190	12.1	0.0864	3.5	0.29	534.3	18.0	550.1	51.5	615.9	250.9	534.3	12.6
MAM12-CS47A-36	195	109173	7.6	17.1076	2.0	0.6980	2.2	0.0866	0.7	0.34	535.4	3.7	537.6	9.0	546.8	44.3	535.4	2.6
MAM12-CS47A-92	65	22619	3.6	17.2920	3.9	0.6926	4.5	0.0869	2.2	0.49	536.9	11.4	534.3	18.6	523.3	85.6	536.9	8.0
MAM12-CS47A-45	209	139612	3.0	17.0317	2.3	0.7036	2.8	0.0869	1.5	0.55	537.2	7.8	540.9	11.7	556.5	50.7	537.2	5.5
MAM12-CS47A-30	66	29177	0.6	17.9488	5.5	0.6705	5.9	0.0873	2.2	0.37	539.4	11.3	521.0	24.1	441.0	122.2	539.4	7.9
MAM12-CS47A-38	172	71346	1.4	16.9513	1.3	0.7124	2.0	0.0876	1.5	0.75	541.2	7.8	546.2	8.4	566.8	28.5	541.2	5.4
MAM12-CS47A-93	133	87656	5.0	17.4434	2.9	0.6997	3.3	0.0885	1.5	0.46	546.8	7.9	538.6	13.7	504.2	64.1	546.8	5.6
MAM12-CS47A-41	1002	437460	10.4	16.9506	0.4	0.7245	1.2	0.0891	1.1	0.94	550.0	5.8	553.3	5.0	566.9	8.3	550.0	4.1
MAM12-CS47A-78	132	43473	2.5	15.5669	7.7	0.7890	10.0	0.0891	6.3	0.63	550.1	33.3	590.6	44.7	749.5	163.5	550.1	23.3
MAM12-CS47A-51	99	61583	2.1	16.9859	4.8	0.7247	5.5	0.0893	2.7	0.49	551.3	14.3	553.5	23.6	562.4	105.0	551.3	10.0
MAM12-CS47A-91	529	183364	3.8	17.0860	0.8	0.7207	1.7	0.0893	1.5	0.87	551.4	7.9	551.1	7.2	549.6	18.0	551.4	5.5
MAM12-CS47A-57	102	26939	1.3	17.1700	3.3	0.7174	3.6	0.0893	1.6	0.44	551.6	8.4	549.1	15.4	538.8	71.7	551.6	5.9
MAM12-CS47A-15	558	228273	3.8	16.8841	0.4	0.7319	1.5	0.0896	1.5	0.96	553.3	7.7	557.7	6.5	575.5	8.6	553.3	5.4
MAM12-CS47A-17	76	107668	1.6	16.6952	4.8	0.7402	5.4	0.0896	2.4	0.45	553.3	12.8	562.5	23.3	599.9	104.4	553.3	9.0
MAM12-CS47A-77	69	36281	11.1	17.2755	4.9	0.7165	7.1	0.0898	5.2	0.73	554.2	27.6	548.6	30.3	525.4	107.3	554.2	19.3
MAM12-CS47A-73	127	287509	2.1	16.9747	2.0	0.7298	2.3	0.0899	1.3	0.54	554.7	6.7	556.5	10.0	563.8	42.8	554.7	4.7
MAM12-CS47A-61	97	120669	3.1	15.8685	5.3	0.7829	8.2	0.0901	6.2	0.76	556.1	33.1	587.1	36.4	708.8	112.7	556.1	23.2
MAM12-CS47A-47	353	127855	3.2	17.0539	0.7	0.7368	2.3	0.0911	2.2	0.96	562.3	11.8	560.6	9.8	553.7	14.2	562.3	8.2
MAM12-CS47A-48	683	326068	3.3	16.9020	0.5	0.7482	1.8	0.0917	1.7	0.96	565.7	9.1	567.2	7.6	573.2	10.6	565.7	6.4
MAM12-CS47A-12	43	17291	0.8	17.6474	9.2	0.7217	9.6	0.0924	2.6	0.27	569.6	14.2	551.7	40.8	478.5	204.1	569.6	9.9
MAM12-CS47A-89	166	112509	7.9	16.7685	2.3	0.7606	2.9	0.0925	1.7	0.59	570.3	9.3	574.3	12.7	590.4	50.9	570.3	6.5
MAM12-CS47A-1	309	144797	5.9	16.1808	2.3	0.7892	3.8	0.0926	3.0	0.79	571.0	16.4	590.7	17.0	667.3	49.6	571.0	11.5
MAM12-CS47A-67	249	126005	2.9	16.9228	1.2	0.7551	1.8	0.0927	1.4	0.75	571.4	7.5	571.2	8.0	570.5	26.4	571.4	5.2
MAM12-CS47A-53	62	31020	0.8	16.4158	5.6	0.7817	6.0	0.0931	2.2	0.36	573.6	11.9	586.4	26.6	636.3	119.7	573.6	8.3
MAM12-CS47A-7	171	97259	2.2	16.7293	1.2	0.7731	2.2	0.0938	1.8	0.82	578.0	9.8	581.6	9.6	595.4	27.0	578.0	6.9
MAM12-CS47A-22	252	94405	1.3	16.6407	1.2	0.7867	2.6	0.0949	2.4	0.89	584.7	13.2	589.3	11.8	606.9	25.6	584.7	9.2
MAM12-CS47A-68	358	217370	5.7	16.1250	2.6	0.8218	5.9	0.0961	5.3	0.90	591.6	30.1	609.1	27.2	674.6	56.6	591.6	21.1
MAM12-CS47A-72	329	124005	1.8	16.8978	1.1	0.7871	2.2	0.0965	1.9	0.88	593.7	10.9	589.5	9.8	573.7	23.2	593.7	7.6
MAM12-CS47A-21	119	64800	1.6	16.4291	2.1	0.8239	2.9	0.0982	2.0	0.70	603.7	11.8	610.2	13.4	634.6	44.7	603.7	8.2
MAM12-CS47A-63	84	29030	0.7	16.3439	4.2	0.8381	4.5	0.0993	1.7	0.38	610.6	10.1	618.1	20.8	645.8	89.2	610.6	7.1
MAM12-CS47A-8	179	169981	2.7	16.4795	1.4	0.8567	2.7	0.1024	2.3	0.86	628.4	14.0	628.3	12.8	627.9	30.4	628.4	9.8
MAM12-CS47A-49	335	108950	3.1	15.6893	2.7	0.9024	10.8	0.1027	10.4	0.97	630.1	62.6	653.0	51.9	733.0	56.6	630.1	43.8
MAM12-CS47A-84	151	73304	2.2	16.4533	2.5	0.8609	4.3	0.1027	3.5	0.81	630.4	21.0	630.6	20.2	631.4	53.9	630.4	14.7
MAM12-CS47A-94	40	33731	1.1	15.7227	4.7	0.9250	5.1	0.1055	1.9	0.38	646.4	11.8	665.0	24.7	728.4	99.3	646.4	8.2
MAM12-CS47A-87	312	338471	5.3	16.3503	1.0	0.8947	2.3	0.1061	2.1	0.91	650.0	13.1	648.9	11.1	644.9	20.4	650.0	9.1
MAM12-CS47A-4	118	34424	3.0	15.9750	3.8	0.9170	6.3	0.1062	5.1	0.80	650.9	31.3	660.8	30.7	694.6	80.7	650.9	21.9
MAM12-CS47A-32	355	337506	3.8	16.1889	1.0	0.9175	1.6	0.1077	1.3	0.80	659.5	8.0	661.0	7.8	666.2	20.8	659.5	5.6
MAM12-CS47A-56	289	140996	1.1	16.2896	0.9	0.9149	1.8	0.1081	1.5	0.85	661.7	9.4	659.7	8.6	652.9	20.3	661.7	6.6
MAM12-CS47A-25	267	237775	8.9	15.6578	0.8	1.0138	1.6	0.1151	1.4	0.88	702.5	9.6	710.8	8.4	737.2	16.8	702.5	6.7
MAM12-CS47A-24	205	194988	2.4	14.9365	2.7	1.1226	5.2	0.1216	4.4	0.86	739.8	31.0	764.2	27.8	836.2	55.5	739.8	21.7
MAM12-CS47A-54	164	211139	4.7	14.1080	1.5	1.2621	6.3	0.1291	6.1	0.97	782.9	44.7	828.8	35.5	954.0	31.4	782.9	31.3

MAM12-CS47A-33	264	22182	1.2	14.1694	1.7	1.3641	3.2	0.1402	2.7	0.84	845.7	21.4	873.6	18.8	945.1	35.6	845.7	15.0
MAM12-CS47A-14	82	49518	2.9	14.4607	1.6	1.3415	5.5	0.1407	5.3	0.96	848.6	42.0	863.9	32.2	903.3	33.4	848.6	29.4
MAM12-CS47A-59	381	193036	56.6	14.7349	0.6	1.3387	5.5	0.1431	5.5	0.99	862.0	44.3	862.7	32.2	864.5	13.4	862.0	31.0
MAM12-CS47A-71	155	89667	6.9	13.9575	1.8	1.5276	7.5	0.1546	7.2	0.97	926.9	62.4	941.5	45.8	975.9	37.5	975.9	26.3
MAM12-CS47A-99	80	68321	1.9	13.8492	2.0	1.6251	4.7	0.1632	4.2	0.90	974.7	37.9	980.0	29.3	991.7	41.4	991.7	29.0
MAM12-CS47A-10	52	89754	2.1	13.7457	2.4	1.5345	3.4	0.1530	2.3	0.70	917.7	20.1	944.3	20.6	1007.0	48.7	1007.0	34.1
MAM12-CS47A-20	58	73757	1.3	13.6602	2.1	1.7472	2.3	0.1731	0.9	0.41	1029.2	8.9	1026.1	14.9	1019.6	42.5	1019.6	29.8
MAM12-CS47A-5	437	255551	22.1	13.5193	0.8	1.8051	6.1	0.1770	6.0	0.99	1050.5	58.2	1047.3	39.6	1040.6	15.3	1040.6	10.7
MAM12-CS47A-62	75	43550	1.8	13.5053	1.3	1.7232	3.2	0.1688	2.9	0.92	1005.4	27.4	1017.2	20.7	1042.7	26.0	1042.7	18.2
MAM12-CS47A-69	62	50914	1.1	13.3904	2.1	1.8269	3.3	0.1774	2.6	0.77	1052.9	25.0	1055.2	21.9	1059.9	42.9	1059.9	30.0
MAM12-CS47A-83	308	48221	0.9	13.3731	0.7	1.7218	2.1	0.1670	2.0	0.94	995.5	18.0	1016.7	13.4	1062.5	14.4	1062.5	10.1
MAM12-CS47A-3	311	71473	17.5	13.3499	1.7	1.4725	3.6	0.1426	3.2	0.88	859.2	25.6	919.1	21.8	1066.0	34.3	1066.0	24.0
MAM12-CS47A-43	226	177323	2.1	13.3424	0.7	1.8077	2.6	0.1749	2.6	0.97	1039.2	24.6	1048.2	17.3	1067.2	13.4	1067.2	9.4
MAM12-CS47A-6	492	263357	1.3	13.2620	0.7	1.7773	3.6	0.1709	3.5	0.98	1017.3	32.9	1037.2	23.1	1079.3	13.5	1079.3	9.5
MAM12-CS47A-23	81	107438	0.5	13.1670	1.9	1.9044	3.0	0.1819	2.3	0.76	1077.1	22.9	1082.6	20.1	1093.7	38.9	1093.7	27.3
MAM12-CS47A-98	123	50840	1.8	13.0658	1.4	1.7927	3.1	0.1699	2.7	0.89	1011.5	25.5	1042.8	20.1	1109.1	28.6	1109.1	20.0
MAM12-CS47A-40	75	87393	1.7	12.8596	1.9	1.8550	2.5	0.1730	1.6	0.63	1028.7	15.0	1065.2	16.5	1140.8	38.5	1140.8	26.9
MAM12-CS47A-76	142	121268	0.7	12.8195	1.1	1.9757	2.6	0.1837	2.4	0.90	1087.1	23.9	1107.3	17.8	1147.0	22.5	1147.0	15.8
MAM12-CS47A-86	266	442734	2.5	12.6573	0.7	1.9775	2.2	0.1815	2.1	0.95	1075.3	20.7	1107.9	14.8	1172.3	13.5	1172.3	9.4
MAM12-CS47A-79	103	60016	1.2	12.5630	1.4	2.2263	1.9	0.2028	1.3	0.68	1190.6	14.2	1189.4	13.5	1187.1	27.9	1187.1	19.6
MAM12-CS47A-80	46	78421	2.1	12.3990	2.3	2.3207	2.6	0.2087	1.1	0.42	1221.8	11.9	1218.6	18.1	1212.9	45.7	1212.9	32.0
MAM12-CS47A-29	68	68188	0.8	12.2315	0.8	2.3458	1.7	0.2081	1.5	0.87	1218.7	16.2	1226.3	11.9	1239.7	16.4	1239.7	11.5
MAM12-CS47A-74	210	75620	0.4	12.0076	0.7	2.4469	3.0	0.2131	2.9	0.97	1245.3	33.1	1256.5	21.6	1275.8	13.4	1275.8	9.4
MAM12-CS47A-97	357	524883	2.4	9.8663	0.3	4.0896	1.4	0.2926	1.4	0.98	1654.7	20.0	1652.2	11.4	1649.1	5.1	1649.1	3.6
MAM12-CS47A-26	73	84616	1.5	9.1336	2.7	4.4347	7.1	0.2938	6.6	0.92	1660.3	95.9	1718.8	58.8	1790.8	49.4	1790.8	34.6
MAM12-CS47A-18	100	155441	0.8	9.0548	0.8	4.9309	1.4	0.3238	1.1	0.82	1808.4	18.1	1807.6	11.9	1806.6	14.7	1806.6	10.3
MAM12-CS47A-85	188	199976	2.9	8.9227	0.3	5.1335	1.3	0.3322	1.3	0.98	1849.1	20.2	1841.7	10.9	1833.3	4.9	1833.3	3.4
MAM12-CS47A-16	87	163679	1.0	7.4777	0.2	7.0177	8.2	0.3806	8.2	1.00	2079.1	146.3	2113.7	73.3	2147.5	3.7	2147.5	2.6
MAM12-CS47A-27	110	117354	1.9	6.2446	0.4	9.8427	2.6	0.4458	2.6	0.99	2376.5	50.9	2420.2	23.9	2457.1	6.7	2457.1	4.7
MAM12-CS47A-13	373	281290	2.0	5.3557	0.2	12.6532	3.2	0.4915	3.1	1.00	2577.1	66.8	2654.2	29.7	2713.4	3.7	2713.4	2.6
MAM12-CS47A-90	54	152031	1.4	5.3279	0.5	13.8108	2.9	0.5337	2.8	0.98	2756.9	63.0	2736.8	27.0	2722.0	8.2	2722.0	5.7
MAM12-CS47A-28	109	41361	2.5	5.1776	0.4	12.0693	1.5	0.4532	1.4	0.97	2409.6	28.3	2609.8	13.6	2769.1	6.0	2769.1	4.2
MAM12-CS47A-81	172	392357	1.4	3.7669	0.3	21.3104	2.5	0.5822	2.5	0.99	2957.7	59.3	3152.8	24.5	3279.5	5.4	3279.5	3.8

Data Repository: Representative Examples of Cathodoluminescence (CL) images of igneous zircon separates from the El Quemado Complex. Laser Ablation pits are commonly 30 to 35 microns in diameter - spot locations are shown for sample EC136.

