Dates (Ma)

Fraction	206Pb/238U [a]	´–2ˇ abs	206Pb/238U <Th> [b]	´–2ˇ abs	207Pb/235U [a]	´–2ˇ abs	207Pb/206Pb [a]	´–2ˇ abs	Corr. coef.	% disc [c]	208Pb/232Th [d]	´–2ˇ abs	207Pb/206Pb <Th> [b]	´–2ˇ abs	207Pb/235U <Pa> [e]	´–2ˇ abs	207Pb/206Pb <Pa> [e]	´–2ˇ abs	207Pb/206Pb <ThPa> [be]	´–2ˇ abs	best date	´–2ˇ abs
R56-99::R56-99																						
z1	180.2	1.2	180.3	1.2	185	14	240	180	0.700	24.87	0	0	239	180	185	14	240	180	239	180	0	0
z3	180.88	0.37	180.96	0.37	182.0	4.5	197	59	0.712	8.30	0	0	196	59	182.0	4.5	197	59	196	59	0	0
z4	180.08	0.51	180.16	0.51	182.4	4.5	213	58	0.687	15.50	0	0	212	58	182.4	4.5	213	58	212	58	0	0
z13	186.9	1.4	187.0	1.4	190	17	227	210	0.806	17.76	0	0	226	210	190	17	227	210	226	210	0	0
z16	181.2	1.0	181.2	1.0	186	13	251	170	0.783	27.86	0	0	250	170	186	13	251	170	250	170	0	0
z19	180.65	0.71	180.74	0.71	184.4	9.3	233	120	0.773	22.32	0	0	231	120	184.4	9.3	232	120	231	120	0	0
z20	180.74	0.57	180.83	0.57	182.6	7.5	206	99	0.782	12.36	0	0	205	99	182.6	7.5	206	99	205	99	0	0
R56-28::R56-28																						
z4	182.74	0.66	182.83	0.66	183.2	5.5	189	72	0.549	3.35	0	0	188	72	183.2	5.5	189	72	188	72	0	0
z6	182.19	0.93	182.28	0.93	188	12	267	150	0.782	31.68	0	0	266	150	188	12	267	150	266	150	0	0
z7	181.89	0.62	181.97	0.62	183.4	6.4	203	84	0.650	10.30	0	0	202	84	183.4	6.4	203	84	202	84	0	0
z8	182.01	0.29	182.10	0.29	179.4	3.6	145	50	0.571	-25.94	0	0	143	50	179.4	3.6	144	50	143	50	0	0
z9	182.28	0.28	182.37	0.28	184.0	3.4	206	45	0.732	11.72	0	0	205	45	184.0	3.4	206	45	205	45	0	0
z10	182.04	0.14	182.13	0.14	182.7	1.5	192	19	0.702	4.94	0	0	190	19	182.7	1.5	191	19	190	19	0	0
z11	184.94	0.67	185.02	0.67	184.1	8.3	174	110	0.771	-6.48	0	0	173	110	184.1	8.3	174	110	173	110	0	0
z12	182.33	0.34	182.43	0.34	182.59	0.91	186	11	0.511	1.98	0	0	185	11	182.59	0.91	186	11	185	11	0	0
z13	182.00	0.12	182.09	0.12	182.7	1.2	192	15	0.651	5.14	0	0	191	15	182.7	1.2	192	15	191	15	0	0
R56-22::R56-22																						
z1b	182.41	0.34	182.50	0.34	183.4	2.8	196	36	0.539	6.84	0	0	195	36	183.4	2.8	196	36	195	36	0	0
z1t	184.5	1.1	184.6	1.1	184.7	1.9	188	21	0.572	1.73	0	0	187	21	184.7	1.9	188	21	187	21	0	0
z2b	185.20	0.64	185.29	0.64	186.5	5.8	202	74	0.631	8.49	0	0	201	74	186.5	5.8	202	74	201	74	0	0
z3t	181.89	0.14	181.98	0.14	182.20	0.68	186.3	8.7	0.471	2.35	0	0	185.0	8.7	182.20	0.68	186.2	8.7	185.0	8.7	0	0
z6b	184.21	0.61	184.29	0.61	184.3	7.5	186	99	0.671	0.78	0	0	185	99	184.3	7.5	186	99	184	99	0	0
z7t	182.22	0.15	182.31	0.15	182.5	1.4	185	18	0.655	1.77	0	0	184	18	182.4	1.4	185	18	184	18	0	0
z8b	181.89	0.36	181.99	0.36	182.5	2.4	191	32	0.455	4.77	0	0	190	32	182.5	2.4	191	32	190	32	0	0
z8t	182.25	0.29	182.34	0.29	182.9	1.5	192	19	0.593	4.92	0	0	190	19	182.9	1.5	192	19	190	19	0	0
z9b	182.02	0.68	182.11	0.68	177.1	5.6	113	76	0.619	-61.73	0	0	111	76	177.1	5.6	112	76	111	76	0	0
z9t	184.59	0.14	184.68	0.14	185.24	0.96	194	12	0.639	4.60	0	0	192	12	185.24	0.96	193	12	192	12	0	0
z13b	186.25	0.22	186.34	0.22	186.5	1.7	190	22	0.594	1.95	0	0	189	22	186.5	1.7	190	22	189	22	0	0
R56-2::R56-2																						
z2	182.7	1.3	182.8	1.3	182.6	7.7	181	100	0.468	-0.80	0	0	180	100	182.6	7.7	181	100	180	100	0	0
z3	183.0	1.2	183.0	1.2	179.4	6.6	133	88	0.532	-37.85	0	0	132	88	179.4	6.6	133	88	132	88	0	0
z6	183.06	0.47	183.15	0.47	187.1	5.3	238	67	0.690	23.16	0	0	237	67	187.1	5.3	238	67	237	67	0	0
z9	183.91	0.68	184.00	0.68	186.5	8.5	220	110	0.686	16.27	0	0	218	110	186.5	8.5	220	110	218	110	0	0
z15	183.20	0.32	183.29	0.32	182.5	4.0	173	52	0.750	-6.06	0	0	172	52	182.4	4.0	173	52	172	52	0	0
Karoo152::Karoo152																						
z2	179.72	0.33	179.81	0.33	181.1	4.3	200	57	0.751	10.02	0	0	199	57	181.1	4.3	200	57	199	57	0	0
z6	179.31	0.29	179.39	0.29	180.3	3.6	194	48	0.652	7.54	0	0	193	48	180.3	3.6	194	48	193	48	0	0
z10	179.81	0.46	179.90	0.46	182.1	5.6	211	73	0.798	14.94	0	0	210	73	182.1	5.6	211	73	210	73	0	0
z11	180.46	0.77	180.54	0.77	183	10	217	130	0.785	16.88	0	0	216	130	183	10	217	130	216	130	0	0
z15	180.12	0.96	180.20	0.96	168	13	6	190	0.781	-2952.62	0	0	5	190	168	13	6	190	5	190	0	0
z18	179.13	0.27	179.22	0.27	176.9	3.2	147	44	0.567	-21.69	0	0	146	44	176.9	3.2	147	44	146	44	0	0
SA39::SA39																						
z1	181.18	0.56	181.26	0.56	171.0	6.0	33	86	0.820	-453.72	0	0	32	86	171.0	6.0	33	86	32	86	0	0
z2	181.73	0.11	181.80	0.11	182.06	0.84	186	11	0.623	2.47	0	0	185	11	182.05	0.84	186	11	185	11	0	0
z3	182.95	0.89	183.04	0.89	184	11	204	150	0.783	10.43	0	0	203	150	184	11	204	150	203	150	0	0
z4	181.1	1.1	181.2	1.1	185	13	242	170	0.795	25.02	0	0	240	170	185	13	241	170	240	170	0	0
z6	181.5	1.0	181.6	1.0	173	14	55	200	0.790	-232.01	0	0	54	200	173	14	55	200	53	200	0	0
z7	182.11	0.71	182.19	0.71	180.5	9.2	160	120	0.777	-13.72	0	0	159	120	180.5	9.2	160	120	159	120	0	0
z8	181.79	0.91	181.87	0.91	184	12	213	150	0.763	14.57	0	0	212	150	184	12	213	150	212	150	0	0
z9	182.80	0.75	182.89	0.75	185.4	9.8	219	130	0.771	16.64	0	0	218	130	185.4	9.8	219	130	218	130	0	0
z10	181.66	0.19	181.72	0.19	182.5	2.3	193	30	0.771	6.11	0	0	193	30	182.5	2.3	193	30	193	30	0	0
z11	181.79	0.60	181.88	0.60	186.7	7.7	249	98	0.747	27.03	0	0	248	98	186.7	7.7	249	98	248	98	0	0
z12	181.8	1.5	181.9	1.5	186	19	237	240	0.796	23.15	0	0	235	240	186	19	236	240	235	240	0	0
z15	181.01	0.30	181.10	0.30	179.4	3.0	159	40	0.661	-14.03	0	0	158	40	179.4	3.0	159	40	158	40	0	0
z16	182.39	0.50	182.48	0.50	185.1	6.1	220	78	0.767	17.26	0	0	219	78	185.1	6.1	220	78	219	78	0	0
z18	181.40	0.27	181.49	0.27	180.7	2.8	171	38	0.679	-6.00	0	0	170	38	180.7	2.8	171	38	170	38	0	0
Karoo152::Karoo152																						
z2	179.59	0.34	179.68	0.34	180.5	4.3	192	58	0.744	6.44	0	0	191	58	180.5	4.3	192	58	191	58	0	0
z6	179.31	0.29	179.39	0.29	180.3	3.6	194	48	0.652	7.54	0	0	193	48	180.3	3.6	194	48	193	48	0	0
z10	179.64	0.45	179.72	0.44	181.0	5.7	199	75	0.800	9.61	0	0	198	75	181.0	5.7	199	75	198	75	0	0
z11	180.46	0.77	180.54	0.77	183	10	217	130	0.785	16.88	0	0	216	130	183	10	217	130	216	130	0	0
z14	189.55	0.46	189.64	0.46	185.2	5.8	130	76	0.776	-45.51	0	0	129	76	185.2	5.8	130	76	129	76	0	0
z15	180.13	0.95	180.22	0.95	170	13	35	180	0.781	-418.79	0	0	34	180	170	13	35	180	34	180	0	0
z18	179.19	0.23	179.28	0.23	177.7	3.2	158	44	0.444	-13.67	0	0	156	44	177.7	3.2	158	44	156	44	0	0

Composition / Isotopic Ratios

Fraction	Mass (g)	mass U(¸…g)	conc U(ppm)	Th (ppm) [f]	Th/U	Pb* (pg) [g]	Pbc (pg) [h]	total mass Pb(pg)	conc Pb* (ppm)	conc Pbc (ppm)	conc Pb (ppm)	Pb*/Pbc [i]	206Pb/204Pb [j]	208Pb/206Pb [k]	206Pb/238U [k]	´–2ˇ %	207Pb/235U [k]	´–2ˇ %	207Pb/206Pb [k]	´–2ˇ %	208Pb/232Th [k]	´–2ˇ %
R56-99::R56-99																						
z1	0.00010	0.000183475	1.83475	0	0.83	5.89	4.37	10.2560	0.0588742	0	0.102560	1	93	0.264	0.02835	0.68	0.199	8.3	0.0510	7.8	0	0
z3	0.00010	0.000144474	1.44474	0	1.03	4.88	0.84	5.71570	0.0487701	0	0.0571570	6	325	0.327	0.028456	0.21	0.1964	2.7	0.0500	2.5	0	0
z4	0.00010	0.000174678	1.74678	0	0.75	5.49	1.14	6.63661	0.0549479	0	0.0663661	5	289	0.240	0.028328	0.28	0.1968	2.7	0.0504	2.5	0	0
z13	0.00010	0.0000282345	0.282345	0	0.90	0.956	0.80	1.75403	0.00956251	0	0.0175403	1	83	0.286	0.02942	0.74	0.206	9.8	0.0507	9.2	0	0
z16	0.00010	0.0000742773	0.742773	0	0.71	2.32	1.60	3.92021	0.0232382	0	0.0392021	1	101	0.224	0.02850	0.56	0.201	7.6	0.0512	7.2	0	0
z19	0.00010	0.000109013	1.09013	0	0.52	3.24	1.64	4.88366	0.0324228	0	0.0488366	2	136	0.165	0.02842	0.40	0.199	5.5	0.0508	5.2	0	0
z20	0.00010	0.0000682598	0.682598	0	0.63	2.09	0.85	2.93693	0.0208739	0	0.0293693	2	161	0.199	0.028435	0.32	0.1970	4.5	0.0502	4.2	0	0
R56-28::R56-28																						
z4	0.00010	0.000194848	1.94848	0	0.58	5.95	1.63	7.57754	0.0595167	0	0.0757754	4	234	0.185	0.02875	0.37	0.1977	3.3	0.0499	3.1	0	0
z6	0.00010	0.000220457	2.20457	0	0.74	7.00	4.82	11.8110	0.0699594	0	0.118110	1	100	0.234	0.02867	0.52	0.204	7.1	0.0516	6.8	0	0
z7	0.00010	0.000162240	1.62240	0	0.80	5.21	1.76	6.97318	0.0520821	0	0.0697318	3	183	0.253	0.028617	0.34	0.1979	3.8	0.0502	3.6	0	0
z8	0.00010	0.000179366	1.79366	0	0.70	5.62	1.00	6.62230	0.0561921	0	0.0662230	6	339	0.222	0.028637	0.16	0.1932	2.2	0.0489	2.1	0	0
z9	0.00010	0.000322312	3.22312	0	0.58	9.82	1.90	11.7136	0.0981620	0	0.117136	5	323	0.184	0.028679	0.16	0.1987	2.0	0.05025	1.9	0	0
z10	0.00010	0.00200832	20.0832	0	0.43	58.6	5.17	63.8126	0.586391	0	0.638126	11	714	0.135	0.028641	0.076	0.1972	0.88	0.04993	0.83	0	0
z11	0.00010	0.0000577663	0.577663	0	0.69	1.83	0.79	2.62173	0.0183436	0	0.0262173	2	152	0.218	0.02910	0.37	0.1988	5.0	0.0495	4.7	0	0
z12	0.00010	0.00147826	14.7826	0	0.34	42.2	1.99	44.2191	0.422244	0	0.442191	21	1348	0.108	0.028688	0.19	0.1970	0.54	0.04981	0.48	0	0
z13	0.00010	0.000906389	9.06389	0	0.45	26.7	1.83	28.4846	0.266579	0	0.284846	15	907	0.144	0.028634	0.067	0.1971	0.70	0.04993	0.65	0	0
R56-22::R56-22																						
z1b	0.00010	0.000317953	3.17953	0	0.45	9.36	1.47	10.8308	0.0936425	0	0.108308	6	407	0.143	0.028700	0.19	0.1979	1.7	0.05002	1.6	0	0
z1t	0.00010	0.000689565	6.89565	0	0.50	20.8	1.63	22.4656	0.208345	0	0.224656	13	786	0.160	0.02903	0.59	0.1995	1.1	0.04984	0.92	0	0
z2b	0.00010	0.000280416	2.80416	0	0.83	9.25	2.60	11.8495	0.0924514	0	0.118495	4	215	0.264	0.02915	0.35	0.2016	3.4	0.0502	3.2	0	0
z3t	0.00010	0.000949772	9.49772	0	0.43	27.8	1.00	28.7709	0.277740	0	0.287709	28	1723	0.138	0.028618	0.079	0.19655	0.40	0.04981	0.37	0	0
z6b	0.00010	0.000138905	1.38905	0	0.67	4.37	1.68	6.05170	0.0437288	0	0.0605170	3	168	0.212	0.028987	0.34	0.1990	4.5	0.0498	4.3	0	0
z7t	0.00010	0.000633412	6.33412	0	0.40	18.4	1.50	19.8938	0.183941	0	0.198938	12	776	0.128	0.028670	0.082	0.1968	0.83	0.04980	0.78	0	0
z8b	0.00010	0.000196088	1.96088	0	0.53	5.89	0.74	6.62578	0.0588509	0	0.0662578	8	492	0.169	0.028618	0.20	0.1970	1.5	0.04991	1.4	0	0
z8t	0.00010	0.000404694	4.04694	0	0.47	12.0	0.92	12.8819	0.119659	0	0.128819	13	811	0.149	0.028674	0.16	0.1974	0.91	0.04993	0.82	0	0
z9b	0.00010	0.000104613	1.04613	0	0.60	3.20	0.89	4.08769	0.0319542	0	0.0408769	4	228	0.191	0.02864	0.38	0.1906	3.4	0.0483	3.2	0	0
z9t	0.00010	0.000696550	6.96550	0	0.85	23.0	1.04	24.0263	0.229863	0	0.240263	22	1235	0.269	0.029049	0.078	0.2001	0.56	0.04997	0.52	0	0
z13b	0.00010	0.000487510	4.87510	0	0.77	15.9	1.21	17.1224	0.159109	0	0.171224	13	756	0.243	0.029314	0.12	0.2017	1.0	0.04989	0.94	0	0
R56-2::R56-2																						
z2	0.00010	0.0000967824	0.967824	0	0.61	2.98	1.04	4.01779	0.0297892	0	0.0401779	3	186	0.194	0.02875	0.70	0.1971	4.6	0.0497	4.3	0	0
z3	0.00010	0.000151283	1.51283	0	0.75	4.82	1.40	6.22745	0.0482369	0	0.0622745	3	212	0.238	0.02879	0.66	0.1932	4.0	0.0487	3.7	0	0
z6	0.00010	0.000297666	2.97666	0	0.64	9.25	2.68	11.9302	0.0925024	0	0.119302	3	218	0.203	0.028805	0.26	0.2023	3.1	0.0509	2.9	0	0
z9	0.00010	0.0000744094	0.744094	0	0.60	2.30	1.01	3.30870	0.0229763	0	0.0330870	2	152	0.189	0.02894	0.37	0.202	5.0	0.0505	4.7	0	0
z15	0.00010	0.000103882	1.03882	0	0.60	3.20	0.68	3.87551	0.0319694	0	0.0387551	5	294	0.191	0.028827	0.18	0.1968	2.4	0.0495	2.2	0	0
Karoo152::Karoo152																						
z2	0.00010	0.000237573	2.37573	0	0.74	7.44	1.74	9.18111	0.0743695	0	0.0918111	4	259	0.236	0.028272	0.19	0.1953	2.6	0.0501	2.5	0	0
z6	0.00010	0.000217380	2.17380	0	0.73	6.77	1.28	8.04986	0.0676801	0	0.0804986	5	317	0.232	0.028205	0.16	0.1944	2.2	0.0500	2.1	0	0
z10	0.00010	0.000121039	1.21039	0	0.70	3.75	1.02	4.77070	0.0375337	0	0.0477070	4	229	0.223	0.028286	0.26	0.1964	3.3	0.0504	3.1	0	0
z11	0.00010	0.0000870276	0.870276	0	0.91	2.85	1.48	4.33131	0.0285222	0	0.0433131	2	123	0.290	0.02839	0.44	0.198	6.0	0.0505	5.7	0	0
z15	0.00010	0.0000298249	0.298249	0	0.78	0.941	0.63	1.57531	0.00940522	0	0.0157531	1	102	0.247	0.02833	0.54	0.180	8.2	0.0462	7.8	0	0
z18	0.00010	0.000187587	1.87587	0	0.60	5.64	0.93	6.57228	0.0564329	0	0.0657228	6	374	0.192	0.028177	0.15	0.1903	2.0	0.04899	1.9	0	0
SA39::SA39																						
z1	0.00001	0.000109893	10.9893	0	0.87	3.57	0.95	4.52127	0.356818	0	0.452127	4	224	0.276	0.028504	0.31	0.1834	3.8	0.0467	3.6	0	0
z2	0.00001	0.000982049	98.2049	0	1.38	36.0	1.38	37.4032	3.60252	0	3.74032	26	1293	0.439	0.028591	0.062	0.19638	0.50	0.04981	0.47	0	0
z3	0.00001	0.0000304558	3.04558	0	0.84	0.995	0.59	1.58777	0.0995040	0	0.158777	2	111	0.268	0.02879	0.49	0.199	6.7	0.0502	6.3	0	0
z4	0.00001	0.0000414836	4.14836	0	0.88	1.35	0.83	2.18428	0.135359	0	0.218428	2	107	0.279	0.02849	0.62	0.200	7.7	0.0510	7.2	0	0
z6	0.00001	0.0000228493	2.28493	0	0.76	0.724	0.51	1.23121	0.0723654	0	0.123121	1	99	0.241	0.02856	0.58	0.185	8.9	0.0471	8.4	0	0
z7	0.00001	0.0000355127	3.55127	0	0.87	1.16	0.53	1.69043	0.116202	0	0.169043	2	139	0.277	0.02865	0.39	0.195	5.6	0.0493	5.3	0	0
z8	0.00001	0.0000233683	2.33683	0	0.76	0.743	0.45	1.19117	0.0743433	0	0.119117	2	112	0.242	0.02860	0.51	0.199	6.9	0.0504	6.5	0	0
z9	0.00001	0.0000276448	2.76448	0	0.77	0.886	0.46	1.34811	0.0886298	0	0.134811	2	126	0.244	0.02876	0.41	0.200	5.8	0.0505	5.5	0	0
z10	0.00001	0.0000862811	8.62811	0	1.54	3.27	0.32	3.59243	0.326937	0	0.359243	10	496	0.488	0.028580	0.11	0.1969	1.4	0.04997	1.3	0	0
z11	0.00001	0.0000321003	3.21003	0	0.68	1.00	0.37	1.37353	0.100172	0	0.137353	3	173	0.216	0.028601	0.33	0.2018	4.5	0.0512	4.3	0	0
z12	0.00001	0.0000227721	2.27721	0	0.76	0.724	0.66	1.38018	0.0723728	0	0.138018	1	80	0.240	0.02860	0.82	0.201	11	0.0509	10	0	0
z15	0.00001	0.000112406	11.2406	0	0.74	3.54	0.48	4.01803	0.353921	0	0.401803	7	436	0.235	0.028477	0.17	0.1933	1.8	0.04923	1.7	0	0
z16	0.00001	0.0000446591	4.46591	0	0.56	1.36	0.41	1.76777	0.135570	0	0.176777	3	213	0.179	0.028698	0.28	0.2000	3.6	0.0506	3.4	0	0
z18	0.00001	0.000110372	11.0372	0	0.77	3.51	0.50	4.00798	0.351021	0	0.400798	7	414	0.245	0.028540	0.15	0.1947	1.7	0.04949	1.6	0	0
Karoo152::Karoo152																						
z2	0.00010	0.000237625	2.37625	0	0.74	7.43	1.75	9.17953	0.0743012	0	0.0917953	4	258	0.236	0.028251	0.19	0.1945	2.6	0.0499	2.5	0	0
z6	0.00010	0.000217380	2.17380	0	0.73	6.77	1.28	8.04986	0.0676801	0	0.0804986	5	317	0.232	0.028205	0.16	0.1944	2.2	0.0500	2.1	0	0
z10	0.00010	0.000121044	1.21044	0	0.70	3.75	1.02	4.76906	0.0374727	0	0.0476906	4	228	0.223	0.028258	0.25	0.1951	3.4	0.0501	3.2	0	0
z11	0.00010	0.0000870276	0.870276	0	0.91	2.85	1.48	4.33131	0.0285222	0	0.0433131	2	123	0.290	0.02839	0.44	0.198	6.0	0.0505	5.7	0	0
z14	0.00010	0.0000748201	0.748201	0	0.51	2.33	0.72	3.04280	0.0232695	0	0.0304280	3	213	0.163	0.029841	0.25	0.2001	3.4	0.0486	3.2	0	0
z15	0.00010	0.0000298411	0.298411	0	0.78	0.942	0.63	1.57552	0.00941864	0	0.0157552	1	102	0.247	0.02834	0.53	0.183	8.1	0.0467	7.6	0	0
z18	0.00010	0.000187587	1.87587	0	0.61	5.65	0.92	6.57303	0.0564874	0	0.0657303	6	376	0.192	0.028187	0.13	0.1912	1.9	0.04921	1.9	0	0

Isotopic Ratios (continued) / Correlation Coefficients

206Pb/238U <Th> [kb]	´–2ˇ %	207Pb/235U <Pa> [ke]	´–2ˇ %	207Pb/206Pb <Th> [kb]	´–2ˇ %	207Pb/206Pb <Pa> [ke]	´–2ˇ %	207Pb/206Pb <ThPa> [kbe]	´–2ˇ %	Corr. coef.	206Pb/238U - 207Pb/235U	206Pb/238U <Th>- 207Pb/235U	206Pb/238U -207Pb/ 235U <Pa>	206Pb/238U <Th>-207Pb/ 235U <Pa>	207Pb/206Pb - 238U/206Pb	207Pb/206Pb <Pa>- 238U/206Pb	207Pb/206Pb <Th>-238U/ 207Pb <Th>	207Pb/206Pb <ThPa>-238U/ 206Pb <Th>	Fraction
																			R56-99::R56-99
0.028363	0.68	0.199266	8.3	0.050955	7.8	0.050978	7.8	0.050953	7.8	0.700	0.70	0.70	0.70	0.70	-0.65	-0.65	-0.65	-0.65	z1
0.028468	0.21	0.196361	2.7	0.050027	2.5	0.050047	2.5	0.050025	2.5	0.712	0.71	0.71	0.71	0.71	-0.67	-0.67	-0.67	-0.67	z3
0.028342	0.28	0.196821	2.7	0.050367	2.5	0.050390	2.5	0.050366	2.5	0.687	0.69	0.69	0.69	0.69	-0.62	-0.62	-0.62	-0.62	z4
0.029429	0.74	0.205629	9.8	0.050678	9.2	0.050699	9.2	0.050677	9.2	0.806	0.81	0.81	0.81	0.81	-0.78	-0.78	-0.78	-0.78	z13
0.028514	0.56	0.201303	7.6	0.051203	7.2	0.051227	7.2	0.051202	7.2	0.783	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z16
0.028434	0.40	0.199122	5.5	0.050791	5.2	0.050816	5.2	0.050790	5.2	0.773	0.77	0.77	0.77	0.77	-0.74	-0.74	-0.74	-0.74	z19
0.028449	0.32	0.196975	4.5	0.050217	4.2	0.050241	4.2	0.050216	4.3	0.782	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z20
																			R56-28::R56-28
0.028768	0.37	0.197718	3.3	0.049848	3.1	0.049872	3.1	0.049847	3.1	0.549	0.55	0.55	0.55	0.55	-0.46	-0.46	-0.46	-0.46	z4
0.028680	0.52	0.203852	7.1	0.051552	6.8	0.051576	6.8	0.051551	6.8	0.782	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z6
0.028631	0.34	0.197944	3.8	0.050144	3.6	0.050167	3.6	0.050143	3.6	0.650	0.65	0.65	0.65	0.65	-0.59	-0.59	-0.59	-0.59	z7
0.028651	0.16	0.193195	2.2	0.048907	2.1	0.048930	2.1	0.048906	2.1	0.571	0.57	0.57	0.57	0.57	-0.52	-0.52	-0.52	-0.52	z8
0.028694	0.16	0.198692	2.0	0.050223	1.9	0.050247	1.9	0.050221	1.9	0.732	0.73	0.73	0.73	0.73	-0.69	-0.69	-0.69	-0.69	z9
0.028656	0.076	0.197153	0.88	0.049899	0.83	0.049924	0.83	0.049897	0.83	0.702	0.70	0.70	0.70	0.70	-0.65	-0.65	-0.65	-0.65	z10
0.029118	0.37	0.198808	5.0	0.049521	4.7	0.049543	4.7	0.049520	4.7	0.771	0.77	0.77	0.77	0.77	-0.74	-0.74	-0.74	-0.74	z11
0.028703	0.19	0.197006	0.54	0.049780	0.48	0.049806	0.48	0.049779	0.48	0.511	0.51	0.51	0.51	0.51	-0.19	-0.19	-0.19	-0.19	z12
0.028649	0.067	0.197134	0.70	0.049906	0.65	0.049931	0.65	0.049905	0.65	0.651	0.65	0.65	0.65	0.65	-0.59	-0.59	-0.59	-0.59	z13
																			R56-22::R56-22
0.028715	0.19	0.197921	1.7	0.049991	1.6	0.050016	1.6	0.049990	1.6	0.539	0.54	0.54	0.54	0.54	-0.45	-0.45	-0.45	-0.45	z1b
0.029050	0.59	0.199540	1.1	0.049819	0.92	0.049844	0.92	0.049818	0.92	0.572	0.57	0.57	0.57	0.57	-0.057	-0.057	-0.057	-0.057	z1t
0.029160	0.35	0.201569	3.4	0.050136	3.2	0.050158	3.2	0.050135	3.2	0.631	0.63	0.63	0.63	0.63	-0.56	-0.56	-0.56	-0.56	z2b
0.028633	0.079	0.196545	0.41	0.049786	0.37	0.049811	0.37	0.049785	0.37	0.471	0.47	0.47	0.47	0.47	-0.30	-0.30	-0.30	-0.30	z3t
0.029001	0.34	0.199032	4.5	0.049776	4.3	0.049799	4.3	0.049774	4.3	0.671	0.67	0.67	0.67	0.67	-0.63	-0.63	-0.63	-0.63	z6b
0.028685	0.082	0.196838	0.83	0.049770	0.78	0.049795	0.78	0.049769	0.78	0.655	0.65	0.65	0.65	0.65	-0.59	-0.59	-0.59	-0.59	z7t
0.028633	0.20	0.196952	1.5	0.049889	1.4	0.049913	1.4	0.049888	1.4	0.455	0.45	0.45	0.45	0.45	-0.33	-0.33	-0.33	-0.33	z8b
0.028689	0.16	0.197395	0.91	0.049903	0.82	0.049928	0.82	0.049902	0.82	0.593	0.59	0.59	0.59	0.59	-0.46	-0.46	-0.46	-0.46	z8t
0.028652	0.38	0.190596	3.4	0.048246	3.2	0.048269	3.2	0.048245	3.2	0.619	0.62	0.62	0.62	0.62	-0.54	-0.54	-0.54	-0.54	z9b
0.029062	0.078	0.200132	0.56	0.049945	0.52	0.049967	0.52	0.049944	0.52	0.639	0.64	0.64	0.64	0.64	-0.55	-0.55	-0.55	-0.55	z9t
0.029327	0.12	0.201646	1.0	0.049869	0.94	0.049891	0.94	0.049867	0.94	0.594	0.59	0.59	0.59	0.59	-0.51	-0.51	-0.51	-0.51	z13b
																			R56-2::R56-2
0.028767	0.70	0.197051	4.6	0.049682	4.3	0.049705	4.3	0.049680	4.3	0.468	0.47	0.47	0.47	0.47	-0.34	-0.34	-0.33	-0.33	z2
0.028801	0.66	0.193236	4.0	0.048662	3.7	0.048685	3.7	0.048661	3.7	0.532	0.53	0.53	0.53	0.53	-0.40	-0.40	-0.40	-0.40	z3
0.028819	0.26	0.202320	3.1	0.050918	2.9	0.050942	2.9	0.050916	2.9	0.690	0.69	0.69	0.69	0.69	-0.64	-0.64	-0.64	-0.64	z6
0.028954	0.37	0.201640	5.0	0.050509	4.7	0.050533	4.7	0.050508	4.7	0.686	0.69	0.69	0.69	0.69	-0.64	-0.64	-0.64	-0.64	z9
0.028842	0.18	0.196839	2.4	0.049500	2.2	0.049523	2.2	0.049498	2.2	0.750	0.75	0.75	0.75	0.75	-0.71	-0.71	-0.71	-0.71	z15
																			Karoo152::Karoo152
0.028286	0.19	0.195302	2.6	0.050078	2.5	0.050101	2.5	0.050077	2.5	0.751	0.75	0.75	0.75	0.75	-0.72	-0.72	-0.72	-0.72	z2
0.028219	0.16	0.194354	2.2	0.049952	2.1	0.049976	2.1	0.049951	2.1	0.652	0.65	0.65	0.65	0.65	-0.61	-0.61	-0.60	-0.60	z6
0.028300	0.26	0.196383	3.3	0.050330	3.1	0.050353	3.1	0.050328	3.1	0.798	0.80	0.80	0.80	0.80	-0.77	-0.77	-0.77	-0.77	z10
0.028402	0.43	0.197585	6.0	0.050455	5.7	0.050477	5.7	0.050454	5.7	0.785	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z11
0.028348	0.54	0.180325	8.2	0.046136	7.8	0.046157	7.8	0.046135	7.8	0.781	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z15
0.028191	0.15	0.190310	2.0	0.048962	1.9	0.048986	1.9	0.048961	1.9	0.567	0.57	0.57	0.57	0.57	-0.51	-0.51	-0.51	-0.51	z18
																			SA39::SA39
0.028518	0.31	0.183444	3.8	0.046655	3.6	0.046676	3.6	0.046654	3.6	0.820	0.82	0.82	0.82	0.82	-0.79	-0.79	-0.79	-0.79	z1
0.028603	0.062	0.196373	0.50	0.049795	0.47	0.049813	0.47	0.049794	0.47	0.623	0.62	0.62	0.62	0.62	-0.54	-0.54	-0.54	-0.54	z2
0.028800	0.49	0.199248	6.7	0.050177	6.3	0.050199	6.3	0.050176	6.3	0.783	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z3
0.028505	0.62	0.200405	7.7	0.050992	7.2	0.051014	7.2	0.050990	7.2	0.795	0.79	0.79	0.79	0.79	-0.76	-0.76	-0.76	-0.76	z4
0.028571	0.58	0.185478	8.9	0.047085	8.4	0.047106	8.4	0.047084	8.4	0.790	0.79	0.79	0.79	0.79	-0.76	-0.76	-0.76	-0.76	z6
0.028666	0.39	0.194593	5.6	0.049235	5.3	0.049257	5.3	0.049234	5.3	0.777	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z7
0.028615	0.51	0.198686	6.9	0.050361	6.5	0.050384	6.5	0.050359	6.5	0.763	0.76	0.76	0.76	0.76	-0.73	-0.73	-0.73	-0.73	z8
0.028777	0.41	0.200377	5.8	0.050502	5.5	0.050525	5.5	0.050501	5.5	0.771	0.77	0.77	0.77	0.77	-0.74	-0.74	-0.74	-0.74	z9
0.028591	0.11	0.196899	1.4	0.049949	1.3	0.049966	1.3	0.049948	1.3	0.771	0.77	0.77	0.77	0.77	-0.74	-0.74	-0.73	-0.73	z10
0.028615	0.33	0.201843	4.5	0.051159	4.3	0.051183	4.3	0.051158	4.3	0.747	0.75	0.75	0.75	0.75	-0.71	-0.71	-0.71	-0.71	z11
0.028614	0.82	0.200734	11	0.050881	10	0.050904	10	0.050879	10	0.796	0.80	0.80	0.80	0.80	-0.77	-0.77	-0.77	-0.77	z12
0.028491	0.17	0.193290	1.8	0.049205	1.7	0.049228	1.7	0.049204	1.7	0.661	0.66	0.66	0.66	0.66	-0.60	-0.60	-0.60	-0.60	z15
0.028712	0.28	0.200020	3.6	0.050526	3.4	0.050550	3.4	0.050525	3.4	0.767	0.77	0.77	0.77	0.77	-0.73	-0.73	-0.73	-0.73	z16
0.028554	0.15	0.194745	1.7	0.049467	1.6	0.049489	1.6	0.049466	1.6	0.679	0.68	0.68	0.68	0.68	-0.63	-0.63	-0.63	-0.63	z18
																			Karoo152::Karoo152
0.028265	0.19	0.194506	2.6	0.049910	2.5	0.049934	2.5	0.049909	2.5	0.744	0.74	0.74	0.74	0.74	-0.71	-0.71	-0.71	-0.71	z2
0.028219	0.16	0.194354	2.2	0.049952	2.1	0.049976	2.1	0.049951	2.1	0.652	0.65	0.65	0.65	0.65	-0.61	-0.61	-0.60	-0.60	z6
0.028272	0.25	0.195118	3.4	0.050056	3.2	0.050079	3.2	0.050054	3.2	0.800	0.80	0.80	0.80	0.80	-0.77	-0.77	-0.77	-0.77	z10
0.028402	0.43	0.197585	6.0	0.050455	5.7	0.050477	5.7	0.050454	5.7	0.785	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z11
0.029856	0.25	0.200101	3.4	0.048611	3.2	0.048634	3.2	0.048610	3.2	0.776	0.78	0.78	0.78	0.78	-0.74	-0.74	-0.74	-0.74	z14
0.028350	0.53	0.182517	8.1	0.046693	7.6	0.046715	7.6	0.046692	7.6	0.781	0.78	0.78	0.78	0.78	-0.75	-0.75	-0.75	-0.75	z15
0.028201	0.13	0.191226	1.9	0.049180	1.9	0.049204	1.9	0.049179	1.9	0.444	0.44	0.44	0.44	0.44	-0.39	-0.39	-0.39	-0.39	z18

a Isotopic dates calculated using the decay constants ¸»238 = 1.55125E-10 and ¸»235 = 9.8485E-10 (Jaffey et al. 1971).
b Corrected for initial Th/U disequilibrium using radiogenic 208Pb and Th/U[magma] = 4.00000.
c % discordance = 100 - (100 * (206Pb/238U date) / (207Pb/206Pb date))
d Isotopic date calculated using the decay constant ¸»232 = 4.93343E-11 (Holden 1990)
e Corrected for initial Pa/U disequilibrium using initial fraction activity ratio [231Pa]/[235U] = 1.10000.
f Th contents calculated from radiogenic 208Pb and the 207Pb/206Pb date of the sample, assuming concordance between U-Th and Pb systems.
g Total mass of radiogenic Pb.
h Total mass of common Pb.
i Ratio of radiogenic Pb (including 208Pb) to common Pb.
j Measured ratio corrected for fractionation and spike contribution only.
k Measured ratios corrected for fractionation, tracer and blank.