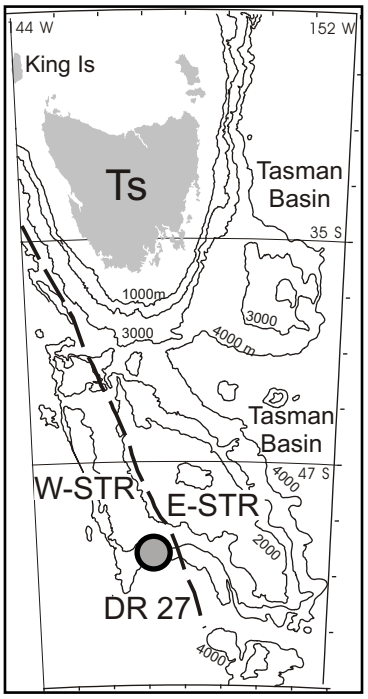


Figure DR1.
Present day configuration of
West South Tasman Rise (W-STR)
East South Tasman Rise (E-STR)
and dredge site DR 27.

PETROGRAPHY AND MINERAL CHEMISTRY OF SOUTH TASMAN RISE DR27 QUARTZ SYENITE

The rock is an undeformed, equigranular, medium-grained alkali feldspar quartz-syenite. Pinkish K-feldspar ($Or_{65}Ab_{31}An_4$) has a diffuse kaoline alteration. Plagioclase is mostly pure albite with a maximum An content of 5%. Zoned plagioclase with An_{29} core is rarely present, and only within K-feldspar. Quartz occurs as subhedral to euhedral grains in graphic intergrowth with feldspar. Mafic silicates are mainly found in aggregates together with opaque minerals. Pyroxene ($Wo_{40}En_{22}Fs_{38}$, Fe/Fe+Mg = 0.61) is an early phase. It is well preserved when included in plagioclase; otherwise it is extensively replaced by amphibole. Amphibole ranges in composition from ferrohorneblende to ferroedenite with rare ferroactinolite rims (Fe/Fe+Mg = 0.65-0.84), and contains up to 1.6 wt.% F and 1 wt.% Cl. Ilmenite (2.8 wt.% Mn), is more abundant than magnetite and titanomagnetite. Apatite and zircon are common accessory phases. Chlorite is a secondary interstitial phase.

Chemical composition of mineral phases in quartz syenite DR 27. WDS, Electron Microprobe analyses: natural and synthetic standards, 15kV, 15nA, 10 seconds, 5 seconds background.
CNR-IGG laboratory, Padova (Italy)
AMPHIBOLE

Spot number	**1**	**4**	**7**	**8**	**20**	**28**	**29**	**30**	**31**	**37**	**42**	**43**	**44**	**53**	**54**	**55**	**56**
SiO2	43.96	50.46	40.69	42.21	45.16	42.31	42.55	42.06	41.17	46.26	41.17	40.53	40.93	41.88	42.39	43.03	41.15
TiO2	1.33	0.18	1.98	0.96	0.38	1.80	1.66	1.58	1.71	0.71	1.58	1.77	1.59	1.97	1.29	1.77	1.42
Al2O3	5.81	1.09	7.31	5.77	5.63	7.05	6.70	6.91	7.06	3.75	7.04	7.24	6.74	6.99	6.30	6.90	7.38
FeO	28.50	25.98	28.30	28.35	24.92	28.44	27.39	27.66	29.41	25.63	28.04	27.86	26.10	28.42	28.12	27.04	29.73
MnO	0.76	0.66	0.58	0.72	0.83	0.57	0.59	0.61	0.68	0.67	0.74	0.65	0.48	0.61	0.71	0.42	0.60
MgO	5.05	7.30	4.28	4.59	7.29	4.38	5.50	5.26	4.00	7.45	4.55	4.45	6.30	4.03	4.67	5.62	3.57
CaO	10.32	11.26	10.27	10.39	10.91	10.31	10.46	10.28	10.07	9.94	10.36	10.42	10.02	10.26	10.23	10.15	10.05
Na2O	1.90	0.60	2.07	1.73	1.66	1.94	1.94	1.92	1.93	1.44	1.85	1.91	1.92	1.88	1.85	1.95	2.01
K2O	0.78	0.21	1.10	0.93	1.03	1.11	1.02	1.05	1.05	0.61	1.00	1.10	1.07	1.07	1.01	1.11	1.04
F	1.12	0.25	0.92	0.69	1.67	0.72	1.03	0.98	1.04	1.34	1.51	1.14	0.81	0.82	1.06	1.08	0.88
Cl	0.26	0.06	0.44	0.78	0.18	0.46	0.41	0.38	0.48	0.36	0.48	0.49	0.38	0.45	0.88	0.39	0.73
	100.77	**98.06**	**97.93**	**97.13**	**99.66**	**99.09**	**99.26**	**98.67**	**98.60**	**98.17**	**98.33**	**97.57**	**96.34**	**98.38**	**98.51**	**99.46**	**98.54**
Structural formulae based on 23 O																	
Si	6.818	7.712	6.503	6.783	6.949	6.645	6.641	6.597	6.534	7.131	6.565	6.515	6.512	6.648	6.732	6.672	6.555
Al iv	1.063	0.197	1.378	1.092	1.020	1.306	1.233	1.278	1.321	0.682	1.323	1.372	1.264	1.308	1.179	1.261	1.385
Al vi	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ti	0.156	0.021	0.238	0.116	0.045	0.213	0.195	0.186	0.204	0.083	0.189	0.214	0.190	0.235	0.154	0.207	0.170
Fe3+	0.837	0.430	0.759	0.799	0.698	0.696	0.808	0.909	0.973	1.055	0.850	0.759	1.106	0.642	0.792	0.804	0.903
Fe2+	2.860	2.891	3.023	3.011	2.508	3.040	2.768	2.719	2.930	2.249	2.890	2.986	2.367	3.129	2.943	2.703	3.058
Mn	0.099	0.086	0.079	0.099	0.108	0.076	0.078	0.081	0.092	0.087	0.100	0.088	0.065	0.083	0.095	0.055	0.081
Mg	1.168	1.664	1.020	1.100	1.672	1.025	1.279	1.230	0.946	1.713	1.083	1.066	1.495	0.954	1.106	1.299	0.848
Ca	1.714	1.844	1.758	1.790	1.798	1.735	1.749	1.727	1.712	1.642	1.771	1.795	1.708	1.745	1.741	1.687	1.716
Na	0.571	0.179	0.640	0.540	0.497	0.591	0.588	0.583	0.593	0.431	0.573	0.596	0.593	0.578	0.571	0.586	0.620
K	0.154	0.042	0.224	0.190	0.202	0.222	0.203	0.210	0.213	0.120	0.203	0.226	0.216	0.216	0.206	0.219	0.210
F	0.547	0.123	0.466	0.349	0.811	0.357	0.510	0.484	0.521	0.652	0.763	0.580	0.405	0.409	0.533	0.528	0.443
Cl	0.067	0.015	0.118	0.212	0.048	0.123	0.109	0.101	0.128	0.093	0.130	0.134	0.102	0.121	0.237	0.103	0.196
OH*	1.385	1.862	1.416	1.439	1.141	1.520	1.381	1.415	1.351	1.254	1.106	1.286	1.493	1.470	1.230	1.369	1.361
Total	**17.439**	**17.064**	**17.622**	**17.520**	**17.497**	**17.547**	**17.540**	**17.520**	**17.518**	**17.193**	**17.547**	**17.616**	**17.517**	**17.539**	**17.517**	**17.492**	**17.546**
Amphibole gro	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca
(Ca+Na) (B)	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Na (B)	0.286	0.156	0.242	0.210	0.202	0.265	0.251	0.273	0.288	0.358	0.229	0.205	0.292	0.255	0.259	0.313	0.284
(Na+K) (A)	0.439	0.064	0.622	0.520	0.497	0.547	0.540	0.520	0.518	0.193	0.547	0.616	0.517	0.539	0.517	0.492	0.546
Mg/(Mg+Fe2)	0.290	0.365	0.252	0.268	0.400	0.252	0.316	0.311	0.244	0.432	0.273	0.263	0.387	0.234	0.273	0.325	0.217
Fe3/(Fe3+Alvi)	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Sum of S2	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000
Fe3/Fe2	0.293	0.149	0.251	0.265	0.278	0.229	0.292	0.334	0.332	0.469	0.294	0.254	0.467	0.205	0.269	0.298	0.295
Fetot/Fetot+Mg	0.760	0.666	0.788	0.776	0.657	0.785	0.737	0.747	0.805	0.659	0.775	0.778	0.699	0.798	0.772	0.730	0.824

FELDSPAR

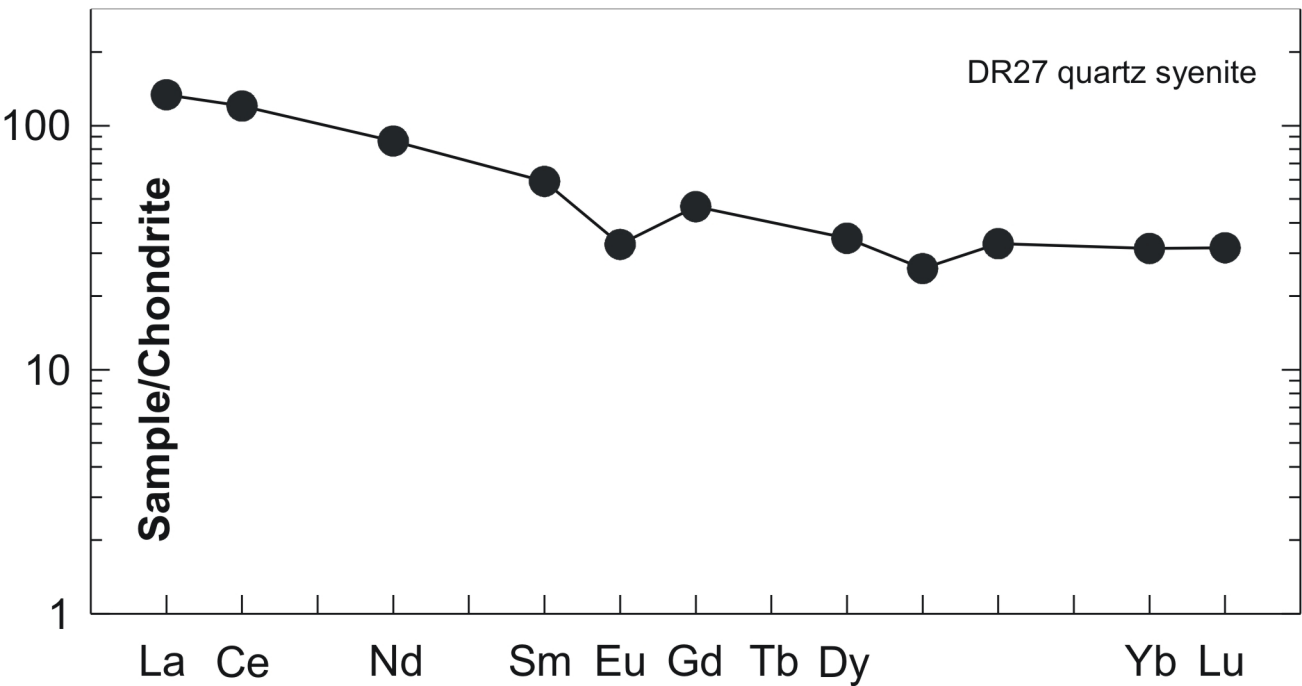
spot	9-kf	3-kf	6-Kf_rim	4a-Albi	2-Pl rim	2-Pl rim	2-Pl rim	2-Pl rim	2-Pl core	2-Pl rim	2-Pl rim	i-Albi_core	Plag-core	Plag-rim
SiO_2	66.37	66.95	67.86	68.72	69.17	68.52	68.74	68.49	69.95	69.65	68.50	68.50	61.06	64.60
Al_2O_3	18.84	19.85	18.49	20.17	19.84	19.69	19.84	19.83	19.66	19.83	19.14	20.60	24.24	21.89
FeO	0.09	0.06	0.07	0.45	0.24	0.19	0.15	0.25	0.00	0.34	0.76	0.08	0.13	0.17
CaO	0.48	0.74	0.04	0.95	0.29	0.33	0.42	0.36	0.19	0.31	0.12	0.90	6.18	3.20
Na_2O	5.88	7.35	4.43	10.98	11.25	11.32	11.54	11.19	11.63	11.37	11.34	10.86	7.73	8.73
K_2O	7.78	5.30	11.07	0.14	0.11	0.12	0.07	0.09	0.05	0.14	0.09	0.58	0.40	0.66
Totale	**99.50**	**100.43**	**101.98**	**101.47**	**100.95**	**100.25**	**100.80**	**100.27**	**101.66**	**101.75**	**100.06**	**101.61**	**99.96**	**99.38**
Si	2.994	2.968	3.018	2.967	2.992	2.987	2.982	2.984	3.004	2.993	2.998	2.955	2.720	2.863
Al	1.002	1.037	0.969	1.026	1.011	1.011	1.014	1.018	0.995	1.004	0.987	1.047	1.272	1.143
Fe^{2+}	0.003	0.002	0.003	0.016	0.009	0.007	0.006	0.009	0.000	0.012	0.028	0.003	0.005	0.006
Ca	0.023	0.035	0.002	0.044	0.013	0.015	0.020	0.017	0.009	0.014	0.005	0.042	0.295	0.152
Na	0.514	0.632	0.382	0.919	0.944	0.957	0.970	0.946	0.969	0.947	0.962	0.908	0.668	0.750
K	0.448	0.300	0.628	0.008	0.006	0.006	0.004	0.005	0.003	0.008	0.005	0.032	0.023	0.038
Totale	**4.986**	**4.979**	**5.002**	**4.982**	**4.977**	**4.988**	**4.997**	**4.981**	**4.983**	**4.982**	**4.992**	**4.990**	**4.988**	**4.956**
Sito Z	3.999	4.008	3.990	4.010	4.012	4.007	4.003	4.013	4.001	4.010	4.013	4.007	3.999	4.016
Sito X	0.986	0.971	1.012	0.972	0.965	0.981	0.994	0.969	0.982	0.972	0.979	0.983	0.989	0.940
Ab %	52.21	65.38	37.77	94.68	97.97	97.76	97.63	97.71	98.82	97.71	98.90	92.53	67.76	79.84
An %	2.35	3.64	0.18	4.53	1.38	1.58	1.99	1.75	0.88	1.48	0.56	4.24	29.92	16.15
Or %	45.44	30.98	62.05	0.79	0.65	0.66	0.39	0.54	0.30	0.81	0.54	3.23	2.32	4.00

PYROXENE

	relics in Hbl		well preserved individuals					
Spot	8-Px_	8-Px2_	9-Cpx1	9-Cpx2	9-Cpx3	9-Cpx1bis	9-Cpx4	3-cpx
SiO_2	52.12	51.05	47.83	48.28	49.36	49.48	47.40	50.42
TiO_2	0.09	0.21	0.49	0.40	0.41	0.34	0.34	0.29
Al_2O_3	0.35	1.14	0.64	0.70	0.61	0.54	0.64	0.77
Cr_2O_3	0.02	0.02	0.00	0.04	0.00	0.04	0.05	0.00
FeO	26.39	25.34	22.99	22.39	22.53	21.76	24.45	20.74
Mno	0.78	0.75	0.79	0.98	0.98	0.75	0.95	0.96
MgO	7.41	7.76	6.90	7.07	7.09	6.99	6.75	7.59
CaO	12.24	11.30	18.56	19.10	18.33	19.35	17.50	18.49
Na_2O	0.05	0.77	0.32	0.27	0.29	0.25	0.29	0.30
K_2O	0.07	0.18	0.01	0.01	0.01	0.06	0.10	0.05
Totale	**99.52**	**98.52**	**98.54**	**99.24**	**99.62**	**99.56**	**98.48**	**99.60**
Si	2.0572	2.0309	1.9401	1.9407	1.9668	1.9696	1.9358	1.9871
Ti	0.0027	0.0063	0.0150	0.0120	0.0123	0.0101	0.0106	0.0085
Al	0.0165	0.0533	0.0304	0.0331	0.0284	0.0251	0.0307	0.0356
Cr	0.0005	0.0005	0.0000	0.0012	0.0000	0.0013	0.0015	0.0000
Fe^{2+}	0.8711	0.8431	0.7798	0.7525	0.7507	0.7245	0.8351	0.6835
Mn	0.0260	0.0253	0.0272	0.0334	0.0329	0.0253	0.0327	0.0321
Mg	0.4360	0.4605	0.4175	0.4239	0.4213	0.4147	0.4112	0.4460
Ca	0.5177	0.4818	0.8067	0.8227	0.7826	0.8254	0.7656	0.7808
Na	0.0037	0.0591	0.0255	0.0209	0.0227	0.0190	0.0230	0.0231
K	0.0036	0.0092	0.0006	0.0007	0.0006	0.0031	0.0054	0.0026
Totale	**3.9352**	**3.9700**	**4.0427**	**4.0410**	**4.0183**	**4.0181**	**4.0517**	**3.9994**
Wo	28.31	26.12	39.75	40.73	39.58	41.61	37.62	40.38
En	23.84	24.97	20.57	20.99	21.31	20.90	20.21	23.07
Fs	47.64	45.71	38.42	37.25	37.97	36.53	41.04	35.35
Acm	0.20	3.20	1.25	1.03	1.15	0.96	1.13	1.20
N° Mg	33.36	35.33	34.87	36.03	35.95	36.40	32.99	39.48

ILMENITE

spot	**51**	**33**	**34**	**39**	**40**	**15**
MgO	0.01	0.00	0.01	0.07	0.03	0.03
Al_2O_3	0.00	0.00	0.00	0.16	0.01	0.19
SiO_2	0.04	0.04	0.01	0.07	0.07	0.08
TiO_2	51.02	50.85	51.28	37.50	36.34	35.50
Cr_2O_3	0.00	0.00	0.00	0.01	0.05	0.01
Mno	2.84	2.72	2.82	1.87	1.78	1.38
FeO	45.06	45.29	45.58	57.16	59.88	60.01
Totale	**98.97**	**98.90**	**99.70**	**96.84**	**98.16**	**97.19**
Si	0.001	0.001	0.000	0.002	0.002	0.002
Ti	0.985	0.983	0.983	0.796	0.770	0.761
Al	0.000	0.000	0.000	0.005	0.000	0.006
Cr	0.000	0.000	0.000	0.000	0.001	0.000
Fe^{2+}	0.967	0.973	0.972	1.349	1.410	1.430
Fe^{3+}	0.000	0.000	0.000	0.000	0.000	0.000
Mn	0.062	0.059	0.061	0.045	0.042	0.033
Mg	0.000	0.000	0.000	0.003	0.001	0.001
Totale	**2.014**	**2.016**	**2.016**	**2.199**	**2.227**	**2.234**


DR27 quartz syenite
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10
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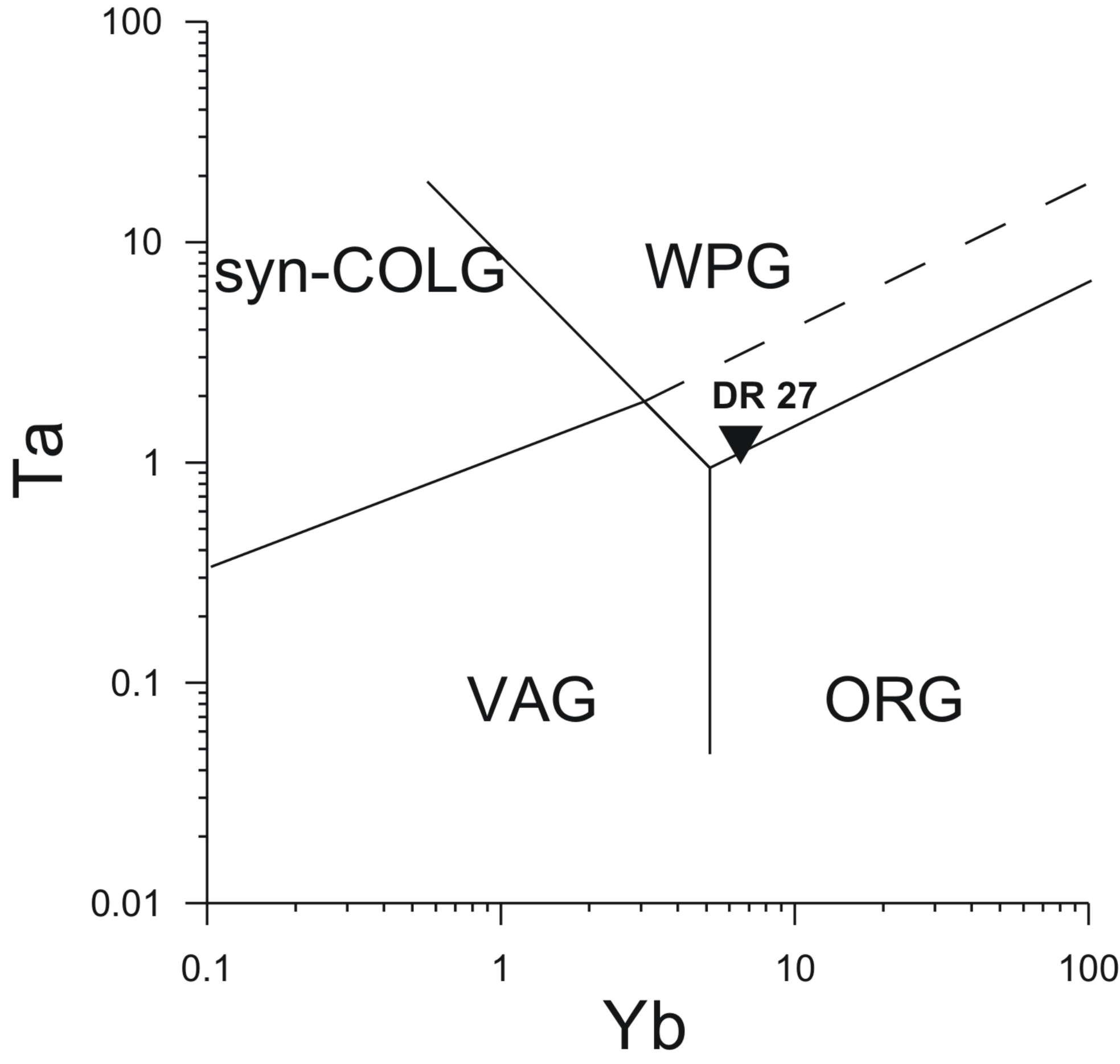
Ce
Nd
Sm
Eu
Gd
Tb
Dy
Yb
Lu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10
1
0.1
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Ta
syn-COLG
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DR 27
VAG
ORG
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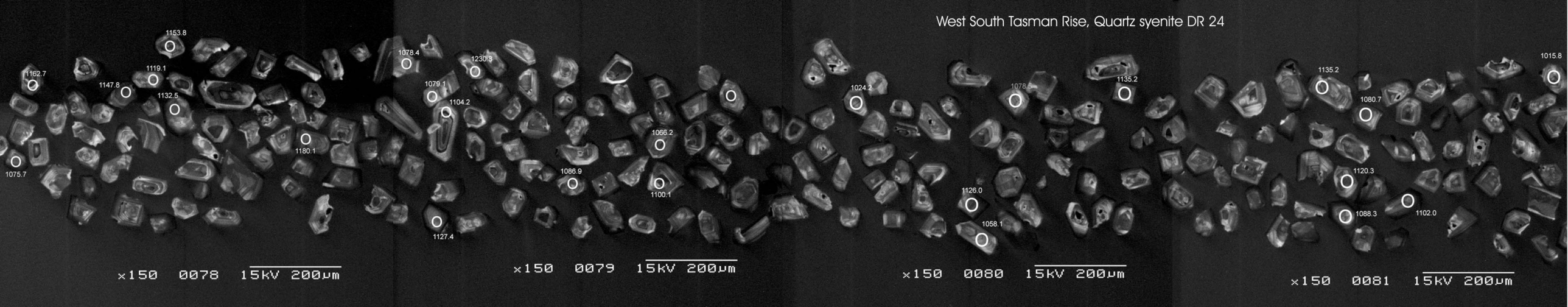
1
10
100
Yb

West South Tasman Rise, Quartz syenite DR 24



Summary of SHRIMP U-Pb zircon results for W-South Tasman Rise sample DR27 syenite.

Temora 1 was used as the Pb/U reference standard (Black et al., 2003).

The calibration error associated with the measured Pb/U ratio of the standard was 2.8%, 1 sigma (54 standards).

grain	U ppm	Th ppm	Th/U	$^{206}Pb/^{204}Pb$ (*)	f_{206}	$^{207}Pb/^{206}Pb$	$^{207}Pb/^{235}U$	$^{206}Pb/^{238}U$	Age (Ma) $^{206}Pb/^{238}U$	Age (Ma) $^{207}Pb/^{206}Pb$
401.1	165	73	0.46	21565	0.08	0.0753 ± 0.0011	1.9300 ± 0.0406	0.1860 ± 0.0029	1099.5 ± 15.5	1075.7 ± 29
402.1	204	112	0.57	-176840	-0.01	0.0786 ± 0.0010	1.9456 ± 0.0379	0.1795 ± 0.0027	1064.1 ± 14.7	1162.7 ± 25
403.1	181	83	0.47	-28115	-0.06	0.0780 ± 0.0013	2.0406 ± 0.0479	0.1896 ± 0.0032	1119.5 ± 17.5	1147.8 ± 32
404.1	126	49	0.40	11134	0.15	0.0769 ± 0.0014	2.0004 ± 0.0476	0.1886 ± 0.0030	1113.9 ± 16.2	1119.1 ± 35
405.1	152	62	0.42	-8547	-0.20	0.0783 ± 0.0011	2.0203 ± 0.0428	0.1872 ± 0.0029	1106.2 ± 15.7	1153.8 ± 29
406.1	141	62	0.46	-57066	-0.03	0.0774 ± 0.0012	2.0007 ± 0.0433	0.1874 ± 0.0029	1107.2 ± 15.8	1132.5 ± 30
407.1	167	62	0.38	-43818	-0.04	0.0793 ± 0.0014	1.9856 ± 0.0472	0.1816 ± 0.0028	1075.5 ± 15.2	1180.1 ± 36
408.1	198	65	0.34	8638	0.20	0.0754 ± 0.0015	1.9530 ± 0.0505	0.1879 ± 0.0030	1110.1 ± 16.3	1078.4 ± 41
409.1	111	40	0.38	7115	0.24	0.0754 ± 0.0016	2.0075 ± 0.0523	0.1931 ± 0.0031	1138.2 ± 16.6	1079.1 ± 41
410.1	156	55	0.36	12204	0.14	0.0763 ± 0.0012	1.9838 ± 0.0460	0.1885 ± 0.0032	1113.0 ± 17.5	1104.2 ± 31
411.1	112	42	0.38	-4842	-0.34	0.0814 ± 0.0021	2.1362 ± 0.0647	0.1904 ± 0.0030	1123.3 ± 16.5	1230.8 ± 50
412.1	150	64	0.44	24716	0.07	0.0757 ± 0.0012	1.9393 ± 0.0429	0.1858 ± 0.0029	1098.7 ± 15.7	1086.9 ± 32
413.1	323	211	0.68	13591	0.12	0.0772 ± 0.0010	2.0607 ± 0.0398	0.1935 ± 0.0029	1140.3 ± 15.4	1127.4 ± 25
414.1	179	86	0.50	7747	0.22	0.0762 ± 0.0012	1.9877 ± 0.0431	0.1892 ± 0.0029	1117.1 ± 15.6	1100.1 ± 31
415.1	150	69	0.48	30727	0.06	0.0749 ± 0.0012	1.9246 ± 0.0428	0.1863 ± 0.0029	1101.4 ± 15.7	1066.2 ± 32
416.1	155	67	0.45	-23500	-0.07	0.0788 ± 0.0011	2.0472 ± 0.0433	0.1884 ± 0.0029	1112.5 ± 15.8	1167.8 ± 29
417.1	170	78	0.48	-10125	-0.17	0.0780 ± 0.0011	1.9225 ± 0.0431	0.1787 ± 0.0030	1060.1 ± 16.6	1147.1 ± 29
418.1	117	42	0.37	7932	0.21	0.0746 ± 0.0015	1.9637 ± 0.0494	0.1909 ± 0.0030	1126.1 ± 16.4	1058.1 ± 39
419.1	150	65	0.45	-11068	-0.15	0.0772 ± 0.0012	2.0392 ± 0.0440	0.1916 ± 0.0030	1130.1 ± 16.1	1126.0 ± 30
420.1	144	60	0.43	20893	0.08	0.0734 ± 0.0012	1.9052 ± 0.0423	0.1883 ± 0.0029	1112.3 ± 15.9	*1024.2 ± 32*
421.1	186	86	0.48	17537	0.10	0.0754 ± 0.0012	1.9675 ± 0.0432	0.1893 ± 0.0029	1117.7 ± 15.7	1078.5 ± 32
422.1	150	63	0.44	17081	0.10	0.0775 ± 0.0012	2.0774 ± 0.0460	0.1943 ± 0.0031	1144.6 ± 16.7	1135.2 ± 31
423.1	130	57	0.45	65823	0.03	0.0755 ± 0.0013	1.9178 ± 0.0438	0.1843 ± 0.0029	1090.6 ± 15.7	1080.7 ± 33
424.1	170	75	0.46	-8573	-0.20	0.0770 ± 0.0019	2.0438 ± 0.0621	0.1926 ± 0.0034	1135.4 ± 18.1	1120.3 ± 50
425.1	142	57	0.42	5450	0.31	0.0757 ± 0.0017	1.9373 ± 0.0528	0.1855 ± 0.0030	1096.9 ± 16.3	1088.3 ± 44
426.1	179	79	0.46	22724	0.07	0.0763 ± 0.0012	1.9455 ± 0.0421	0.1850 ± 0.0029	1094.3 ± 15.6	1102.0 ± 30
427.1	169	76	0.46	7248	0.24	0.0731 ± 0.0012	1.8288 ± 0.0408	0.1815 ± 0.0028	1075.3 ± 15.4	*1015.8 ± 33*
428.1	129	44	0.35	16097	0.11	0.0756 ± 0.0014	1.8122 ± 0.0437	0.1740 ± 0.0028	1033.9 ± 15.2	1083.2 ± 36
429.1	244	117	0.50	-221924	-0.01	0.0767 ± 0.0009	2.0101 ± 0.0391	0.1901 ± 0.0029	1122.2 ± 15.5	1112.7 ± 25
431.1	207	84	0.42	1527	1.10	0.0788 ± 0.0029	1.9719 ± 0.0791	0.1814 ± 0.0029	1074.6 ± 15.7	1168.2 ± 73
432.1	166	66	0.41	16673	0.10	0.0786 ± 0.0014	1.9743 ± 0.0470	0.1821 ± 0.0029	1078.3 ± 15.7	1163.3 ± 35
433.1	137	58	0.44	10086	0.17	0.0758 ± 0.0015	1.9539 ± 0.0500	0.1871 ± 0.0030	1105.5 ± 16.4	1088.5 ± 40
434.1	117	51	0.45	17550	0.10	0.0791 ± 0.0015	2.0254 ± 0.0502	0.1856 ± 0.0030	1097.7 ± 16.4	1175.5 ± 37
435.1	174	65	0.39	5406	0.31	0.0746 ± 0.0016	1.7516 ± 0.0474	0.1703 ± 0.0029	1013.6 ± 16.2	1057.9 ± 42
436.1	175	79	0.47	37509	0.05	0.0751 ± 0.0012	1.8652 ± 0.0414	0.1801 ± 0.0028	1067.8 ± 15.3	1071.1 ± 32
437.1	159	68	0.44	24101	0.07	0.0772 ± 0.0013	1.9288 ± 0.0437	0.1811 ± 0.0028	1073.0 ± 15.5	1127.6 ± 33
438.1	163	73	0.47	15627	0.11	0.0775 ± 0.0013	1.9941 ± 0.0460	0.1865 ± 0.0029	1102.6 ± 15.9	1134.8 ± 34
439.1	219	105	0.50	158103	0.01	0.0761 ± 0.0011	1.9416 ± 0.0403	0.1850 ± 0.0028	1094.0 ± 15.4	1098.6 ± 28
440.1	172	77	0.46	-23557	-0.07	0.0773 ± 0.0012	1.9634 ± 0.0435	0.1843 ± 0.0029	1090.3 ± 15.7	1128.4 ± 31
441.1	195	95	0.50	85501	0.02	0.0762 ± 0.0011	1.9586 ± 0.0423	0.1864 ± 0.0029	1101.6 ± 15.7	1101.0 ± 30
442.1	201	94	0.48	145730	0.01	0.0764 ± 0.0011	1.9888 ± 0.0420	0.1889 ± 0.0029	1115.4 ± 15.8	1104.4 ± 29
443.1	162	74	0.47	11000	0.15	0.0764 ± 0.0013	1.9514 ± 0.0449	0.1853 ± 0.0029	1095.8 ± 15.8	1105.2 ± 34
444.1	204	61	0.31	71030	0.02	0.0770 ± 0.0011	1.9540 ± 0.0439	0.1841 ± 0.0032	1089.3 ± 17.3	1120.6 ± 29
445.1	132	53	0.41	7418	0.23	0.0724 ± 0.0013	1.8828 ± 0.0449	0.1887 ± 0.0030	1114.4 ± 16.2	*996.1 ± 36*
446.1	208	101	0.50	9318	0.18	0.0759 ± 0.0010	1.9480 ± 0.0399	0.1861 ± 0.0028	1100.2 ± 15.3	1092.9 ± 28
447.1	171	45	0.27	-10123	-0.17	0.0781 ± 0.0014	1.9845 ± 0.0475	0.1842 ± 0.0028	1090.0 ± 15.4	1150.1 ± 36
448.1	259	123	0.49	47231	0.04	0.0755 ± 0.0011	1.9577 ± 0.0409	0.1880 ± 0.0029	1110.8 ± 15.5	1082.0 ± 29
449.1	203	68	0.35	-15630	-0.11	0.0773 ± 0.0011	1.9612 ± 0.0414	0.1840 ± 0.0028	1088.6 ± 15.2	1129.5 ± 29
450.1	142	57	0.42	-34118	-0.05	0.0794 ± 0.0016	2.0318 ± 0.0514	0.1856 ± 0.0029	1097.7 ± 15.8	1181.6 ± 39
451.1	199	70	0.36	108503	0.02	0.0774 ± 0.0010	2.0147 ± 0.0405	0.1887 ± 0.0029	1114.5 ± 15.5	1132.2 ± 26
452.1	146	60	0.42	-5393	-0.31	0.0793 ± 0.0018	2.0423 ± 0.0567	0.1869 ± 0.0029	1104.4 ± 16.0	1178.8 ± 45
453.1	247	110	0.46	116097	0.01	0.0756 ± 0.0009	1.9362 ± 0.0372	0.1856 ± 0.0028	1097.7 ± 15.1	1085.7 ± 24
454.1	148	69	0.48	-25621	-0.07	0.0764 ± 0.0011	1.9982 ± 0.0432	0.1897 ± 0.0029	1119.6 ± 16.0	1105.6 ± 30
455.1	207	72	0.36	-19724	-0.09	0.0788 ± 0.0010	2.0841 ± 0.0410	0.1919 ± 0.0029	1131.7 ± 15.7	1166.3 ± 25
456.1	373	220	0.61	27936	0.06	0.0763 ± 0.0008	1.9741 ± 0.0366	0.1878 ± 0.0029	1109.2 ± 15.8	1101.7 ± 20
457.1	174	81	0.48	-6304	-0.27	0.0803 ± 0.0016	1.9708 ± 0.0500	0.1779 ± 0.0027	1055.6 ± 15.0	1205.3 ± 40
458.1	129	51	0.41	-9937	-0.17	0.0793 ± 0.0015	2.0466 ± 0.0505	0.1871 ± 0.0030	1105.9 ± 16.1	1180.1 ± 37
459.1	144	61	0.44	-6784	-0.25	0.0779 ± 0.0012	2.0360 ± 0.0451	0.1895 ± 0.0030	1118.7 ± 16.1	1144.9 ± 31

(*) 204 overcount correction applied

Errors are 1 sigma

Mean age of coherent group (N=56)	1119.9
age error (95% conf.)	8.5
MSWD	1.22
Probability	0.12

The data were processed using Squid (Ludwig, 2002) program

Ludwig, K.R., 2002, SQUID1.02, a user's manual: Berkeley Geochronology Center Special Publication No. 2.

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