

Fig. DR1. U-Pb concordia diagram for detrital zircons from the Sanbagawa orogenic belt

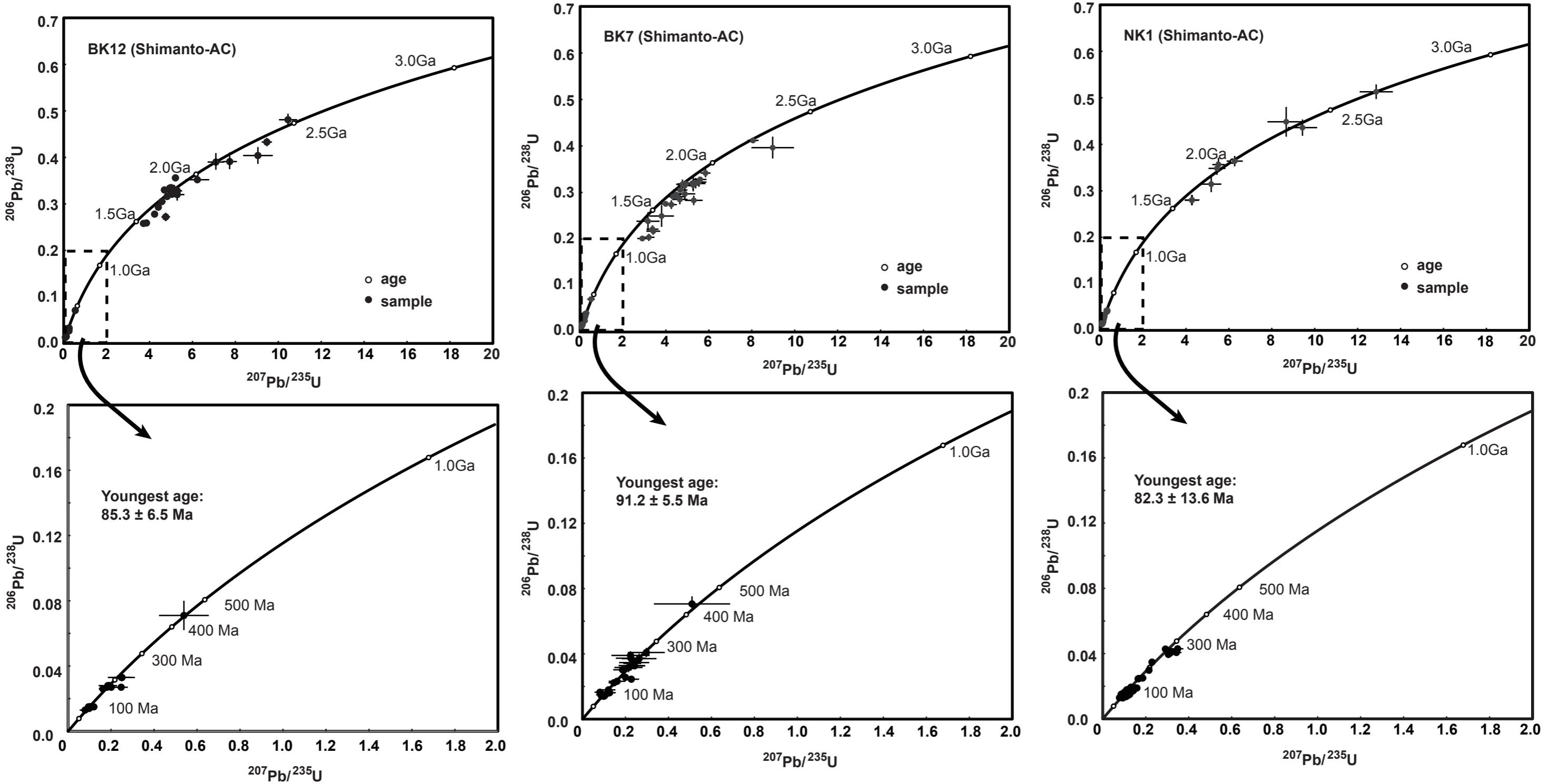


Fig. DR2. U-Pb concordia diagram for detrital zircons from the Shimanto orogenic belt

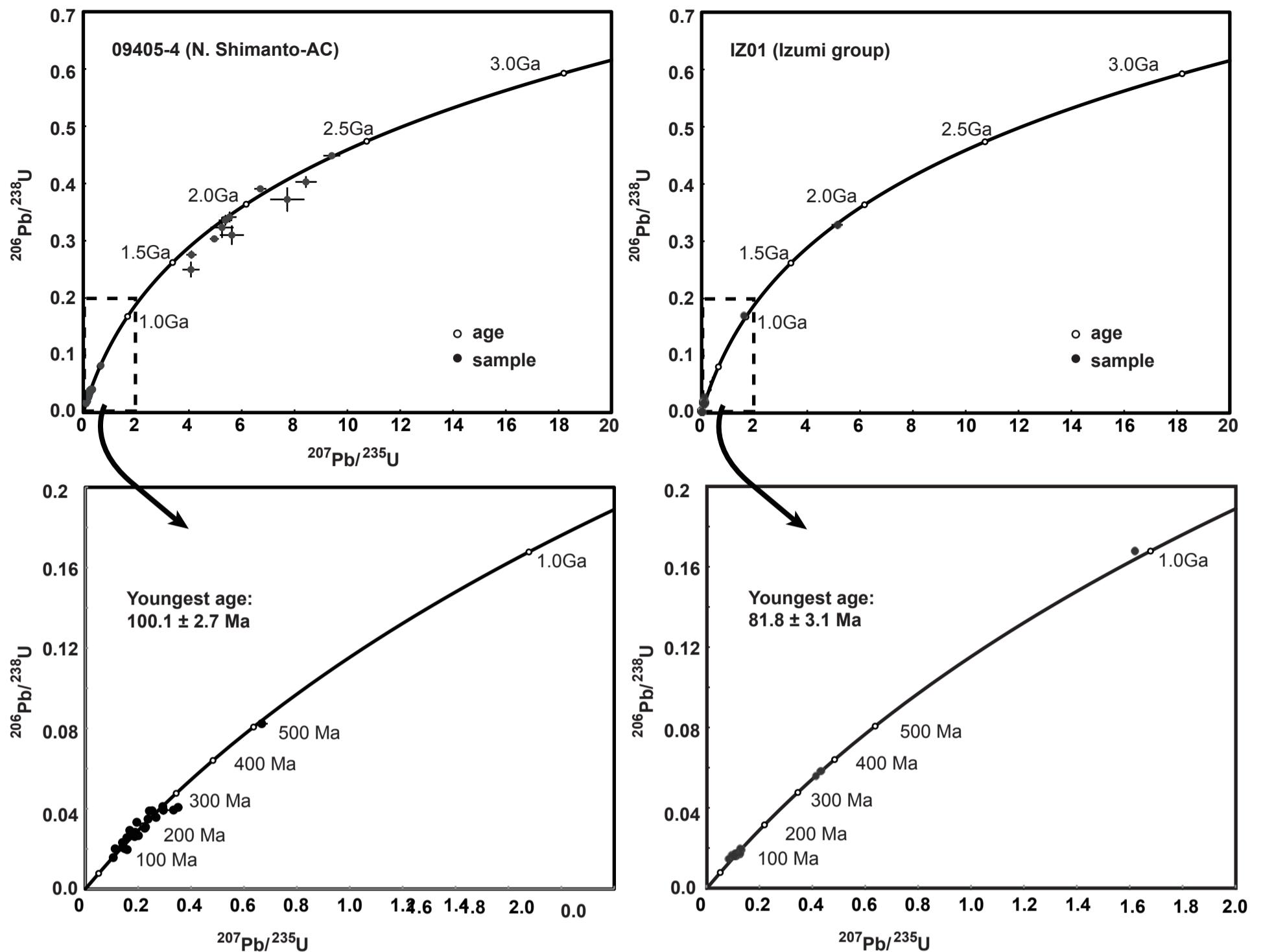


Fig. DR2. Continued

TABLE 1. LA-ICPMS isotopic analytical data for detrital zircons from the Sanbosan accretionary complex

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age	
			$^{238}\text{U}/^{206}\text{Pb}$		$^{235}\text{U}/^{207}\text{Pb}$	
JC6-1	0.0296	\pm 0.0003	0.2041	\pm 0.0052	187.9	\pm 1.9
JC6-2	0.0307	\pm 0.0004	0.2103	\pm 0.0084	194.8	\pm 2.3
JC6-3	0.0305	\pm 0.0003	0.1967	\pm 0.0075	193.8	\pm 2.2
JC6-4	0.0290	\pm 0.0003	0.1953	\pm 0.0070	184.1	\pm 2.1
JC6-6	0.0276	\pm 0.0003	0.1956	\pm 0.0070	175.3	\pm 2.0
JC6-7	0.0290	\pm 0.0003	0.2083	\pm 0.0081	184.0	\pm 2.2
JC6-8	0.0360	\pm 0.0004	0.2556	\pm 0.0099	228.3	\pm 2.7
JC6-9	0.0333	\pm 0.0004	0.2282	\pm 0.0084	211.2	\pm 2.4
JC6-10	0.0304	\pm 0.0003	0.2040	\pm 0.0071	192.9	\pm 2.2
JC6-11	0.0446	\pm 0.0005	0.3222	\pm 0.0087	281.1	\pm 2.9
JC6-12	0.0318	\pm 0.0004	0.2401	\pm 0.0083	201.8	\pm 2.3
JC6-13	0.0286	\pm 0.0004	0.1946	\pm 0.0106	182.0	\pm 2.6
JC6-14	0.0287	\pm 0.0004	0.1898	\pm 0.0093	182.3	\pm 2.4
JC6-15	0.0270	\pm 0.0004	0.1554	\pm 0.0112	171.9	\pm 2.9
JC6-16	0.0279	\pm 0.0004	0.2144	\pm 0.0108	177.6	\pm 2.5
JC6-17	0.0303	\pm 0.0003	0.1972	\pm 0.0062	192.2	\pm 2.1
JC6-18	0.0286	\pm 0.0004	0.1985	\pm 0.0087	182.1	\pm 2.3
JC6-19	0.0288	\pm 0.0003	0.2021	\pm 0.0064	183.2	\pm 2.0
JC6-20	0.0303	\pm 0.0003	0.2005	\pm 0.0062	192.3	\pm 2.1
JC6-21	0.0304	\pm 0.0003	0.1947	\pm 0.0066	192.8	\pm 1.7
JC6-22	0.0302	\pm 0.0003	0.2107	\pm 0.0076	191.9	\pm 1.8
JC6-23	0.0338	\pm 0.0003	0.2326	\pm 0.0082	214.4	\pm 2.0
JC6-24	0.0322	\pm 0.0003	0.2293	\pm 0.0086	204.5	\pm 2.0
JC6-25	0.0336	\pm 0.0003	0.2375	\pm 0.0077	213.3	\pm 1.9
JC6-26	0.0337	\pm 0.0003	0.2572	\pm 0.0090	213.4	\pm 2.0
JC6-27	0.0338	\pm 0.0003	0.2239	\pm 0.0071	214.3	\pm 1.8
JC6-28	0.0318	\pm 0.0003	0.2141	\pm 0.0095	201.8	\pm 2.2
JC6-29	0.0298	\pm 0.0003	0.1915	\pm 0.0066	189.1	\pm 1.7
JC6-30	0.0340	\pm 0.0003	0.2484	\pm 0.0072	215.7	\pm 1.8
JC6-31	0.3451	\pm 0.0044	5.8970	\pm 0.3296	1911.4	\pm 28.2
JC6-32	0.0366	\pm 0.0003	0.2450	\pm 0.0050	231.6	\pm 2.3
JC6-33	0.0346	\pm 0.0003	0.2230	\pm 0.0053	219.4	\pm 2.2
JC6-34	0.0334	\pm 0.0003	0.2197	\pm 0.0053	211.5	\pm 2.1
JC6-35	0.0319	\pm 0.0003	0.2306	\pm 0.0067	202.4	\pm 2.2
JC6-36	0.2570	\pm 0.0023	3.7732	\pm 0.0525	1474.3	\pm 14.8
JC6-37	0.0289	\pm 0.0004	0.1884	\pm 0.0087	183.6	\pm 2.4
JC6-38	0.0307	\pm 0.0003	0.2059	\pm 0.0067	195.0	\pm 2.2
JC6-39	0.0257	\pm 0.0004	0.2522	\pm 0.0116	163.7	\pm 2.4
JC6-40	0.0323	\pm 0.0004	0.2058	\pm 0.0081	205.0	\pm 2.4
JC6-41	0.0301	\pm 0.0005	0.2313	\pm 0.0123	190.9	\pm 3.2
JC6-42	0.0784	\pm 0.0010	0.5892	\pm 0.0169	486.3	\pm 6.4
JC6-43	0.0323	\pm 0.0004	0.2075	\pm 0.0072	205.1	\pm 2.8
JC6-44	0.0342	\pm 0.0004	0.2308	\pm 0.0063	217.0	\pm 2.8
JC6-45	0.0329	\pm 0.0004	0.2263	\pm 0.0056	208.7	\pm 2.6
JC6-46	0.0295	\pm 0.0004	0.2034	\pm 0.0094	187.6	\pm 2.8
JC6-47	0.0323	\pm 0.0004	0.2076	\pm 0.0058	205.0	\pm 2.6
JC6-48	0.0272	\pm 0.0004	0.1866	\pm 0.0076	173.2	\pm 2.5
JC6-49	0.0274	\pm 0.0004	0.1851	\pm 0.0062	174.3	\pm 2.4
JC6-50	0.0318	\pm 0.0004	0.2088	\pm 0.0056	201.7	\pm 2.6

All errors are quoted at 2σ

TABLE 1. Continued

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age	
			$^{238}\text{U}/^{206}\text{Pb}$		$^{235}\text{U}/^{207}\text{Pb}$	
JC6-51	0.0279	\pm 0.0004	0.1810	\pm 0.0077	177.6	\pm 2.8
JC6-52	0.0299	\pm 0.0005	0.2252	\pm 0.0095	189.8	\pm 3.0
JC6-53	0.0298	\pm 0.0004	0.2147	\pm 0.0073	189.1	\pm 2.8
JC6-54	0.0298	\pm 0.0005	0.1991	\pm 0.0085	189.1	\pm 3.0
JC6-55	0.0293	\pm 0.0004	0.2128	\pm 0.0083	186.4	\pm 2.9
JC6-56	0.0304	\pm 0.0005	0.2041	\pm 0.0098	192.9	\pm 3.2
JC6-57	0.0311	\pm 0.0005	0.2024	\pm 0.0071	197.4	\pm 2.9
JC6-58	0.0288	\pm 0.0005	0.1870	\pm 0.0107	182.8	\pm 3.2
JC6-59	0.0353	\pm 0.0005	0.2484	\pm 0.0083	223.6	\pm 3.3
JC6-60	0.0283	\pm 0.0005	0.2070	\pm 0.0102	179.8	\pm 3.0
JC6-61	0.0318	\pm 0.0003	0.2189	\pm 0.0057	202.0	\pm 2.1
JC6-62	0.0272	\pm 0.0004	0.1849	\pm 0.0085	173.1	\pm 2.3
JC6-63	0.0328	\pm 0.0003	0.2421	\pm 0.0065	208.0	\pm 2.2
JC6-64	0.0333	\pm 0.0004	0.2400	\pm 0.0072	210.9	\pm 2.3
JC6-65	0.0322	\pm 0.0004	0.2404	\pm 0.0093	204.3	\pm 2.5
JC6-66	0.0374	\pm 0.0004	0.2543	\pm 0.0071	236.5	\pm 2.5
JC6-67	0.0416	\pm 0.0005	0.2912	\pm 0.0105	262.9	\pm 3.1
JC6-68	0.0351	\pm 0.0004	0.2505	\pm 0.0072	222.6	\pm 2.4
JC6-69	0.0386	\pm 0.0004	0.2616	\pm 0.0068	244.2	\pm 2.6
JC6-70	0.0316	\pm 0.0004	0.2131	\pm 0.0103	200.3	\pm 2.7
JC6-71	0.0357	\pm 0.0004	0.2313	\pm 0.0048	226.0	\pm 2.7
JC6-72	0.0289	\pm 0.0004	0.1982	\pm 0.0052	183.5	\pm 2.3
JC6-73	0.0317	\pm 0.0004	0.2171	\pm 0.0062	201.0	\pm 2.5
JC6-74	0.0286	\pm 0.0005	0.1938	\pm 0.0105	181.7	\pm 2.9
JC6-75	0.0307	\pm 0.0004	0.1936	\pm 0.0052	194.6	\pm 2.4
JC6-76	0.0302	\pm 0.0006	0.2459	\pm 0.0163	191.8	\pm 3.6
JC6-77	0.0299	\pm 0.0004	0.2118	\pm 0.0065	190.2	\pm 2.5
JC6-78	0.0292	\pm 0.0004	0.2086	\pm 0.0075	185.7	\pm 2.5
JC6-79	0.0273	\pm 0.0004	0.1881	\pm 0.0069	173.5	\pm 2.4
JC6-80	0.0296	\pm 0.0004	0.2111	\pm 0.0051	187.7	\pm 2.3
JC6-81	0.3665	\pm 0.0021	5.5144	\pm 0.1646	2013.0	\pm 13.7
JC6-82	0.0316	\pm 0.0003	0.2221	\pm 0.0092	200.7	\pm 1.8
JC6-83	0.0319	\pm 0.0002	0.2171	\pm 0.0071	202.5	\pm 1.4
JC6-84	0.0285	\pm 0.0003	0.2271	\pm 0.0125	181.2	\pm 2.2
JC6-85	0.0321	\pm 0.0002	0.2154	\pm 0.0077	203.5	\pm 1.5
JC6-86	0.0302	\pm 0.0003	0.1866	\pm 0.0080	192.1	\pm 1.7
JC6-87	0.0308	\pm 0.0003	0.2177	\pm 0.0085	195.8	\pm 1.6
JC6-88	0.0331	\pm 0.0003	0.2431	\pm 0.0092	210.2	\pm 1.7
JC6-89	0.0352	\pm 0.0003	0.2515	\pm 0.0100	223.2	\pm 1.9
JC6-90	0.0324	\pm 0.0002	0.2126	\pm 0.0075	205.7	\pm 1.5
JC6-z1	0.0283	\pm 0.0010	0.2210	\pm 0.0086	179.7	\pm 6.5
JC6-z2	0.0405	\pm 0.0014	0.2821	\pm 0.0099	255.9	\pm 9.2
JC6-z3	0.0260	\pm 0.0009	0.1721	\pm 0.0084	165.5	\pm 6.0
JC6-z4	0.0290	\pm 0.0010	0.2013	\pm 0.0080	184.0	\pm 6.6
JC6-z5	0.0270	\pm 0.0009	0.1939	\pm 0.0080	171.9	\pm 5.7
JC6-z6	0.0295	\pm 0.0010	0.2000	\pm 0.0061	187.2	\pm 6.1
JC6-z7	0.0274	\pm 0.0009	0.1985	\pm 0.0066	174.1	\pm 5.7
JC6-z8	0.0248	\pm 0.0008	0.1772	\pm 0.0057	157.7	\pm 5.2

TABLE 2. LA-ICPMS isotopic analytical data for detrial zircons from the Ryoseki-Monobegawa group

Spot number	$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	Age				
			$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$			
JC8-1	0.0690 ± 0.0008	0.5354 ± 0.0123	430.3 ± 5.2	435.4 ± 12.4			
JC8-2	0.0318 ± 0.0004	0.2407 ± 0.0067	201.5 ± 2.5	219.0 ± 6.8			
JC8-3	0.0439 ± 0.0006	0.2900 ± 0.0099	277.0 ± 3.6	258.5 ± 10.0			
JC8-4	0.0442 ± 0.0005	0.3036 ± 0.0068	279.1 ± 3.3	269.2 ± 6.9			
JC8-5	0.0431 ± 0.0005	0.3494 ± 0.0110	272.1 ± 3.5	304.3 ± 11.2			
JC8-6	0.0501 ± 0.0006	0.3551 ± 0.0095	315.1 ± 3.9	308.5 ± 9.6			
JC8-7	0.0810 ± 0.0010	0.7003 ± 0.0246	502.2 ± 6.7	539.0 ± 24.6			
JC8-8	0.0437 ± 0.0006	0.3009 ± 0.0120	275.9 ± 3.8	267.1 ± 12.1			
JC8-10	0.0434 ± 0.0006	0.3468 ± 0.0158	273.8 ± 4.1	302.3 ± 15.9			
JC8-11	0.0413 ± 0.0004	0.2968 ± 0.0088	260.8 ± 2.4	263.9 ± 8.9			
JC8-12	0.0423 ± 0.0003	0.2999 ± 0.0070	266.9 ± 2.2	266.3 ± 7.1			
JC8-13	0.0490 ± 0.0004	0.3636 ± 0.0071	308.5 ± 2.5	314.9 ± 7.2			
JC8-14	0.0472 ± 0.0006	0.3242 ± 0.0156	297.3 ± 3.6	285.1 ± 15.7			
JC8-15	0.0406 ± 0.0003	0.2851 ± 0.0056	256.6 ± 2.0	254.7 ± 5.7			
JC8-16	0.0405 ± 0.0004	0.2844 ± 0.0077	255.8 ± 2.3	254.1 ± 7.8			
JC8-17	0.0308 ± 0.0003	0.1962 ± 0.0061	195.3 ± 1.8	181.9 ± 6.2			
JC8-18	0.0464 ± 0.0004	0.3593 ± 0.0088	292.6 ± 2.5	311.7 ± 8.8			
JC8-19	0.0431 ± 0.0006	0.2848 ± 0.0170	272.1 ± 3.8	254.5 ± 17.1			
JC8-20	0.0426 ± 0.0003	0.3035 ± 0.0062	269.1 ± 2.2	269.1 ± 6.3			
JC8-21	0.0438 ± 0.0005	0.3106 ± 0.0071	276.5 ± 3.2	274.7 ± 7.2			
JC8-22	0.0453 ± 0.0005	0.3105 ± 0.0064	285.6 ± 3.2	274.6 ± 6.5			
JC8-23	0.0455 ± 0.0009	0.3592 ± 0.0274	287.1 ± 5.6	311.6 ± 27.4			
JC8-24	0.0492 ± 0.0007	0.3447 ± 0.0184	309.5 ± 4.7	300.7 ± 18.5			
JC8-25	0.0449 ± 0.0005	0.3372 ± 0.0058	283.3 ± 3.1	295.0 ± 5.9			
JC8-26	0.0425 ± 0.0005	0.2979 ± 0.0080	268.3 ± 3.2	264.7 ± 8.1			
JC8-27	0.0427 ± 0.0005	0.3182 ± 0.0081	269.3 ± 3.1	280.5 ± 8.2			
JC8-28	0.0430 ± 0.0005	0.3018 ± 0.0087	271.2 ± 3.2	267.8 ± 8.7			
JC8-29	0.0434 ± 0.0007	0.2979 ± 0.0184	273.6 ± 4.5	264.7 ± 18.5			
JC8-30	0.0510 ± 0.0006	0.3626 ± 0.0121	320.4 ± 4.0	314.1 ± 12.2			
JC8-31	0.0200 ± 0.0004	0.1398 ± 0.0060	127.9 ± 2.3	132.9 ± 6.0			
JC8-32	0.0446 ± 0.0008	0.2904 ± 0.0163	281.1 ± 5.4	258.8 ± 16.4			
JC8-33	0.0418 ± 0.0008	0.2658 ± 0.0153	264.0 ± 5.1	239.3 ± 15.5			
JC8-34	0.0479 ± 0.0008	0.3454 ± 0.0096	301.7 ± 5.0	301.3 ± 9.7			
JC8-35	0.0458 ± 0.0008	0.3371 ± 0.0102	288.7 ± 4.8	295.0 ± 10.3			
JC8-36	0.0446 ± 0.0007	0.3068 ± 0.0081	281.3 ± 4.6	271.7 ± 8.2			
JC8-37	0.0415 ± 0.0007	0.2905 ± 0.0125	262.3 ± 4.7	259.0 ± 12.6			
JC8-38	0.1517 ± 0.0024	1.4354 ± 0.0290	910.6 ± 15.3	903.8 ± 29.1			
JC8-39	0.0404 ± 0.0007	0.2766 ± 0.0094	255.2 ± 4.3	247.9 ± 9.5			
JC8-40	0.0428 ± 0.0007	0.3147 ± 0.0118	270.4 ± 4.7	277.8 ± 11.9			
JC8-41	0.0432 ± 0.0007	0.3311 ± 0.0129	272.6 ± 4.3	290.4 ± 13.0			
JC8-42	0.0449 ± 0.0007	0.3128 ± 0.0116	282.9 ± 4.4	276.4 ± 11.7			
JC8-43	0.3928 ± 0.0056	7.0543 ± 0.1864	2135.6 ± 35.7	2118.3 ± 173.5			
JC8-44	0.0438 ± 0.0006	0.3351 ± 0.0104	276.1 ± 4.1	293.5 ± 10.5			
JC8-45	0.0425 ± 0.0008	0.3299 ± 0.0213	268.2 ± 5.2	289.5 ± 21.4			
JC8-46	0.0483 ± 0.0008	0.3628 ± 0.0163	303.8 ± 5.0	314.3 ± 16.4			
JC8-47	0.0475 ± 0.0010	0.3302 ± 0.0275	299.1 ± 6.6	289.7 ± 27.5			
JC8-48	0.0447 ± 0.0008	0.3502 ± 0.0198	282.1 ± 5.1	304.9 ± 19.9			
JC8-49	0.0442 ± 0.0007	0.2939 ± 0.0109	279.0 ± 4.3	261.6 ± 11.0			
JC8-50	0.0452 ± 0.0007	0.3343 ± 0.0097	284.8 ± 4.2	292.8 ± 9.8			
JC8-51	0.0452 ± 0.0006	0.3613 ± 0.0135	284.9 ± 3.6	313.2 ± 13.6			
JC8-52	0.0497 ± 0.0007	0.4167 ± 0.0186	312.6 ± 4.3	353.7 ± 18.7			
JC8-53	0.0391 ± 0.0005	0.2780 ± 0.0119	247.4 ± 3.3	249.1 ± 12.1			
JC8-54	0.0509 ± 0.0007	0.3698 ± 0.0156	320.3 ± 4.2	319.5 ± 15.8			
JC8-55	0.0408 ± 0.0005	0.2957 ± 0.0091	257.8 ± 3.0	263.0 ± 9.2			
JC8-56	0.0454 ± 0.0005	0.3301 ± 0.0104	286.0 ± 3.4	289.7 ± 10.5			
JC8-57	0.0590 ± 0.0007	0.4495 ± 0.0129	369.3 ± 4.3	376.9 ± 13.0			

TABLE 2. Continued

Spot number	$^{206}\text{Pb}/^{238}\text{U}$	$^{207}\text{Pb}/^{235}\text{U}$	Age				
			$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$			
JC8-60	0.0455 ± 0.0005	0.3204 ± 0.0093	286.8 ± 3.3	282.2 ± 9.4			
JC8-61	0.0336 ± 0.0007	0.2230 ± 0.0125	213.0 ± 4.6	204.4 ± 12.6			
JC8-62	0.0355 ± 0.0007	0.2632 ± 0.0087	225.2 ± 4.4	237.2 ± 8.8			
JC8-63	0.0424 ± 0.0008	0.3000 ± 0.0114	267.7 ± 5.4	266.4 ± 11.5			
JC8-65	0.0481 ± 0.0010	0.3524 ± 0.0156	302.9 ± 6.3	306.6 ± 15.7			
JC8-66	0.0487 ± 0.0009	0.3557 ± 0.0114	306.6 ± 6.0	309.0 ± 11.5			
JC8-67	0.0197 ± 0.0004	0.1546 ± 0.0076	125.5 ± 2.7	146.0 ± 7.6			
JC8-68	0.0476 ± 0.0009	0.3308 ± 0.0109	299.7 ± 5.9	290.2 ± 11.0			
JC8-69	0.0452 ± 0.0010	0.3375 ± 0.0186	285.2 ± 6.3	295.3 ± 18.7			
JC8-70	0.0387 ± 0.0009	0.2703 ± 0.0183	244.7 ± 5.7	242.9 ± 18.4			
JC8-71	0.0472 ± 0.0006	0.3247 ± 0.0093	297.5 ± 3.9	285.5 ± 9.4			
JC8-72	0.0461 ± 0.0006	0.3219 ± 0.0098	290.6 ± 3.8	283.4 ± 9.9			
JC8-73	0.0446 ± 0.0006	0.3168 ± 0.0111	281.3 ± 3.9	279.4 ± 11.3			
JC8-74	0.0453 ± 0.0006	0.3199 ± 0.0112	285.7 ± 3.9	281.8 ± 11.3			
JC8-75	0.0205 ± 0.0004	0.1476 ± 0.0115	130.7 ± 2.7	139.8 ± 11.7			
JC8-76	0.0381 ± 0.0005	0.2931 ± 0.0103	240.9 ± 3.3	261.0 ± 10.4			
JC8-77	0.0345 ± 0.0005	0.2784 ± 0.0088	218.9 ± 2.9	249.4 ± 8.9			
JC8-78	0.0478 ± 0.0007	0.3704 ± 0.0184	300.8 ± 4.8	320.0 ± 18.5			
JC8-79	0.0442 ± 0.0006	0.2982 ± 0.0126	279.1 ± 4.0	265.0 ± 12.7			
JC8-80	0.0451 ± 0.0007	0.3750 ± 0.0160	284.4 ± 4.2	323.4 ± 16.1			
JC8-81	0.0196 ± 0.0004	0.1389 ± 0.0099	125.3 ± 2.4	132.1 ± 10.0			
JC8-82	0.0322 ± 0.0005	0.2250 ± 0.0101	204.5 ± 2.9	206.1 ± 10.2			
JC8-83	0.0393 ± 0.0005	0.2748 ± 0.0122	248.2 ± 3.5	246.6 ± 12.3			
JC8-84	0.0470 ± 0.0006	0.3361 ± 0.0092	295.9 ± 3.6	294.2 ± 9.3			
JC8-85	0.0432 ± 0.0005	0.3309 ± 0.0103	272.6 ± 3.4	290.2 ± 10.4			
JC8-86	0.0473 ± 0.0006	0.3323 ± 0.0116	298.0 ± 3.9	291.3 ± 11.7			
JC8-87	0.0452 ± 0.0005	0.3226 ± 0.0092	284.7 ± 3.5	283.9 ± 9.3			
JC8-88	0.0462 ± 0.0006	0.3123 ± 0.0090	291.0 ± 3.6	276.0 ± 9.1			
JC8-89	0.0442 ± 0.0006	0.3148 ± 0.0106	278.5 ± 3.6	277.9 ± 10.7			
JC8-90	0.0480 ± 0.0007	0.2979 ± 0.0168	302.1 ± 4.7	264.7 ± 17.0			
JC8-91	0.0473 ± 0.0007	0.3887 ± 0.0136	297.6 ± 4.3	333.4 ± 13.7			
JC8-92	0.0468 ± 0.0006	0.3690 ± 0.0111	295.0 ± 4.0	318.9 ± 11.2			
JC8-93	0.0454 ± 0.0006	0.3408 ± 0.0112	286.5 ± 4.0	297.8 ± 11.3			
JC8-94	0.0439 ± 0.0007	0.3231 ± 0.0180	277.3 ± 4.7	284.3 ± 18.1			
JC8-95	0.0387 ± 0.0006	0.2971 ± 0.0151	244.7 ± 4.0	264.1 ± 15.2			
JC8-96	0.0407 ± 0.0006	0.3064 ± 0.0145	257.1 ± 4.1	271.4 ± 14.6			
JC8-97	0.0499 ± 0.0007	0.3654 ± 0.0107	313.6 ± 4.3	316.2 ± 10.8			
JC8-98	0.0428 ± 0.0006	0.3150 ± 0.0097	270.1 ± 3.7	278.0 ± 9.8			
JC8-99	0.1879 ± 0.0024	2.0195 ± 0.0529	1110.2 ± 15.6	1122.1 ± 52.3			
JC8-100	0.2830 ± 0.0039	3.8264 ± 0.1482	1606.6 ± 25.1	1598.3 ± 140.4			
JC8-101	0.0453 ± 0.0007	0.3788 ± 0.0211	285.9 ± 4.6	326.1 ± 21.2			
JC8-102	0.0603 ± 0.0010	0.4351 ± 0.0261	377.7 ± 6.3	366.8 ± 26.2			
JC8-z1	0.0409 ± 0.0013	0.2825 ± 0.0085	258.7 ± 8.5	252.6 ± 8.6			
JC8-z2	0.0408 ± 0.0013	0.2785 ± 0.0089	258.0 ± 8.5	249.5 ± 9.0			
JC8-z3	0.0405 ± 0.0013	0.2961 ± 0.0090	256.2 ± 8.4	263.3 ± 9.1			
JC8-z4	0.0386 ± 0.0013	0.2870 ± 0.0101	244.1 ± 8.1	256.2 ± 10.2			
JC8-z5	0.0390 ± 0.0013	0.2686 ± 0.0088	246.5 ± 8.1	241.6 ± 8.9			</

TABLE 3. LA-ICPMS isotopic analytical data for detrial zircons from the Sanbagawa metamorphic rock

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age		
					$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$	
BK11-2	0.2860 ± 0.0120		4.3230 ± 0.4290		1628.3 ± 60.3	1675.9 ± 87.9	
BK11-3	0.2740 ± 0.0090		4.8790 ± 0.2760		1560.7 ± 46.2	1785.8 ± 48.5	
BK11-4	0.3050 ± 0.0120		4.7670 ± 0.4550		1724.6 ± 60.2	1740.6 ± 80.6	
BK11-5	0.3000 ± 0.0110		4.6500 ± 0.3990		1696.3 ± 55.0	1720.9 ± 73.8	
BK11-7	0.3060 ± 0.0110		4.7910 ± 0.4660		1727.4 ± 53.2	1743.5 ± 79.7	
BK11-8	0.3190 ± 0.0100		5.1340 ± 0.3030		1798.0 ± 47.2	1827.0 ± 50.9	
BK11-10	0.0260 ± 0.0010		0.1750 ± 0.0330		168.0 ± 8.5	162.4 ± 27.1	
BK11-11	0.3160 ± 0.0110		4.9630 ± 0.3930		1779.3 ± 54.0	1786.4 ± 68.9	
BK11-12	0.3400 ± 0.0110		5.2800 ± 0.3590		1892.0 ± 53.5	1854.5 ± 59.2	
BK11-13	0.3630 ± 0.0100		5.7790 ± 0.2270		2002.5 ± 45.0	1940.3 ± 33.5	
BK11-14	0.3020 ± 0.0100		4.5410 ± 0.2850		1718.2 ± 50.0	1715.2 ± 53.1	
BK11-15	0.3410 ± 0.0130		5.3930 ± 0.3520		1889.3 ± 64.2	1858.8 ± 57.6	
BK11-16	0.3090 ± 0.0090		4.8540 ± 0.2630		1742.6 ± 46.7	1784.7 ± 45.6	
BK11-17	0.3100 ± 0.0090		4.7790 ± 0.2450		1745.1 ± 42.4	1768.2 ± 44.1	
BK11-18	0.0360 ± 0.0020		0.2720 ± 0.0600		232.7 ± 11.5	272.4 ± 44.8	
BK11-19	0.0260 ± 0.0020		0.1690 ± 0.0340		168.3 ± 9.8	168.6 ± 27.6	
BK11-20	0.3520 ± 0.0140		5.9760 ± 0.4090		1974.0 ± 66.1	1970.2 ± 57.2	
BK11-21	0.2480 ± 0.0070		3.7940 ± 0.2450		1430.8 ± 38.2	1575.8 ± 52.5	
BK11-23	0.2800 ± 0.0090		4.1250 ± 0.1830		1598.1 ± 45.9	1654.3 ± 36.2	
BK11-25	0.3270 ± 0.0100		5.1540 ± 0.3090		1833.2 ± 46.3	1831.6 ± 49.1	
BK11-27	0.2820 ± 0.0100		4.3190 ± 0.3470		1609.4 ± 49.8	1664.5 ± 70.6	
BK11-30	0.2900 ± 0.0080		4.3090 ± 0.2060		1649.0 ± 41.9	1686.5 ± 39.3	
BK11-31	0.3020 ± 0.0080		5.0210 ± 0.2700		1707.2 ± 41.4	1815.1 ± 45.3	
BK11-32	0.3310 ± 0.0150		5.3310 ± 0.4830		1857.8 ± 70.4	1851.5 ± 73.4	
BK11-33	0.3400 ± 0.0140		5.6080 ± 0.4000		1904.7 ± 65.6	1898.4 ± 63.0	
BK11-34	0.3260 ± 0.0100		6.1280 ± 0.2820		1831.4 ± 47.4	1988.5 ± 40.7	
BK11-35	0.0280 ± 0.0020		0.2170 ± 0.0460		181.2 ± 9.9	218.3 ± 35.2	
BK11-36	0.3100 ± 0.0110		5.0290 ± 0.3510		1752.3 ± 55.5	1813.2 ± 59.8	
BK11-39	0.2820 ± 0.0080		4.8030 ± 0.4320		1611.7 ± 41.9	1757.5 ± 59.6	
BK11-42	0.0270 ± 0.0010		0.1890 ± 0.0300		172.5 ± 8.8	189.5 ± 23.0	
BK11-43	0.0340 ± 0.0020		0.2990 ± 0.0760		218.5 ± 13.9	304.0 ± 58.0	
BK11-44	0.2850 ± 0.0070		4.3520 ± 0.1630		1623.7 ± 36.5	1698.6 ± 31.1	
BK11-45	0.2730 ± 0.0080		4.4880 ± 0.2640		1555.2 ± 40.7	1715.2 ± 47.9	
BK11-49	0.3890 ± 0.0180		7.0690 ± 0.5440		2176.5 ± 79.9	2148.4 ± 61.1	
BK11-50	0.2730 ± 0.0080		4.0300 ± 0.2120		1571.2 ± 42.3	1640.7 ± 42.2	
BK11-51	0.0250 ± 0.0010		0.1740 ± 0.0310		163.2 ± 7.7	175.0 ± 24.7	
BK11-53	0.3050 ± 0.0090		4.8890 ± 0.2540		1719.0 ± 43.6	1791.2 ± 44.8	
BK11-54	0.2670 ± 0.0110		3.7420 ± 0.3640		1530.7 ± 58.5	1535.7 ± 79.6	
BK11-55	0.3060 ± 0.0130		4.7080 ± 0.2640		1748.8 ± 64.3	1778.4 ± 45.5	
BK11-57	0.3000 ± 0.0100		4.4370 ± 0.2590		1693.4 ± 47.5	1711.7 ± 45.3	
BK11-58	0.0250 ± 0.0010		0.1770 ± 0.0440		157.5 ± 7.9	204.8 ± 36.9	
BK11-61	0.3380 ± 0.0140		5.0260 ± 0.3550		1882.6 ± 67.8	1793.8 ± 63.2	
BK11-65	0.0240 ± 0.0010		0.1560 ± 0.0250		156.0 ± 7.0	149.4 ± 21.3	
BK11-66	0.3180 ± 0.0100		4.7130 ± 0.3120		1799.6 ± 50.5	1752.6 ± 58.7	
BK11-67	0.3150 ± 0.0100		5.0610 ± 0.3330		1771.3 ± 50.6	1811.0 ± 54.9	
BK11-68	0.0390 ± 0.0020		0.2900 ± 0.0660		246.0 ± 14.2	294.6 ± 48.1	
BK11-69	0.4100 ± 0.0100		8.1190 ± 0.2940		2223.0 ± 46.3	2241.2 ± 33.0	
BK11-70	0.2820 ± 0.0070		4.2450 ± 0.1770		1606.1 ± 35.7	1675.4 ± 34.5	
BK11-71	0.3310 ± 0.0100		5.4180 ± 0.2970		1844.6 ± 50.1	1876.8 ± 47.6	
BK11-72	0.2530 ± 0.0070		3.8870 ± 0.2050		1460.2 ± 36.0	1605.9 ± 41.3	
BK11-74	0.3150 ± 0.0110		5.0330 ± 0.4010		1773.2 ± 55.9	1795.5 ± 70.5	
BK11-75	0.3040 ± 0.0110		5.0100 ± 0.3030		1736.6 ± 53.1	1802.9 ± 51.3	
BK11-78	0.3010 ± 0.0110		4.7460 ± 0.3030		1704.9 ± 54.4	1756.1 ± 54.7	
BK11-79	0.2980 ± 0.0060		4.3890 ± 0.1620		1677.8 ± 30.2	1706.1 ± 30.9	
BK11-84	0.2740 ± 0.0090		4.2660 ± 0.3270		1552.3 ± 47.8	1669.0 ± 62.8	
BK11-85	0.3300 ± 0.0090		4.7620 ± 0.1450		1817.7 ± 44.9	1765.3 ± 26.8	

All errors are quoted at 2σ

TABLE 4. LA-ICPMS isotopic analytical data for detrial zircons from the N. Shimanto accretary complex

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age			
					$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$		
054-2	0.0266 ± 0.0007		0.2008 ± 0.0095		169.3 ± 4.5		185.8 ± 8.0	
054-3	0.0267 ± 0.0007		0.1722 ± 0.0082		169.9 ± 4.5		161.4 ± 7.1	
054-4	0.0407 ± 0.0011		0.3509 ± 0.0166		256.9 ± 6.8		305.4 ± 12.5	
054-5	0.0411 ± 0.0011		0.2931 ± 0.0139		259.4 ± 6.9		261.0 ± 10.9	
054-6	0.0157 ± 0.0004		0.1058 ± 0.0050		100.1 ± 2.7		102.1 ± 4.6	
054-7	0.0357 ± 0.0010		0.2676 ± 0.0127		226.0 ± 6.0		240.8 ± 10.2	
054-8	0.3358 ± 0.0091		5.3835 ± 0.2551		1866.3 ± 43.9		1882.2 ± 40.6	
054-9	0.3413 ± 0.0092		5.5377 ± 0.2624		1893.1 ± 44.4		1906.5 ± 40.8	
054-10	0.0393 ± 0.0011		0.3337 ± 0.0158		248.7 ± 6.6		292.4 ± 12.0	
054-11	0.4485 ± 0.0046		9.4092 ± 0.3199		2388.8 ± 20.3		2378.7 ± 31.2	
054-12	0.0201 ± 0.0002		0.1496 ± 0.0051		128.3 ± 1.3		141.5 ± 4.5	
054-13	0.0276 ± 0.0003		0.1777 ± 0.0060		175.5 ± 1.8		166.0 ± 5.2	
054-14	0.3033 ± 0.0031		4.9612 ± 0.1686		1707.7 ± 15.3		1812.7 ± 28.7	
054-15	0.0389 ± 0.0004		0.2424 ± 0.0082		246.0 ± 2.5		220.4 ± 6.7	
054-16	0.0823 ± 0.0008		0.6672 ± 0.0227		510.0 ± 5.0		519.0 ± 13.8	
054-17	0.0308 ± 0.0003		0.2278 ± 0.0077		195.9 ± 2.0		208.4 ± 6.4	
054-18	0.0283 ± 0.0003		0.1889 ± 0.0064		179.7 ± 1.8		175.7 ± 5.5	
054-20	0.3907 ± 0.0040		6.7019 ± 0.2278		2126.2 ± 18.4		2072.9 ± 30.0	
054-21	0.2756 ± 0.0069		4.0945 ± 0.1946		1569.0 ± 34.9		1653.2 ± 38.8	
054-22	0.0303 ± 0.0008		0.2249 ± 0.0107		192.4 ± 4.8		206.0 ± 8.9	
054-24	0.0348 ± 0.0009		0.2373 ± 0.0113		220.8 ± 5.4		216.2 ± 9.3	
054-25	0.0201 ± 0.0005		0.1130 ± 0.0054		128.0 ± 3.2		108.7 ± 4.9	
054-26	0.0207 ± 0.0005		0.1410 ± 0.0067		132.1 ± 3.3		133.9 ± 6.0	
054-27	0.0256 ± 0.0006		0.1572 ± 0.0075		162.8 ± 4.0		148.2 ± 6.6	
054-28	0.4028 ± 0.0101		8.4307 ± 0.4006		2181.7 ± 46.4		2278.5 ± 43.2	
054-29	0.0390 ± 0.0010		0.2525 ± 0.0120		246.5 ± 6.1		228.6 ± 9.7	
054-31	0.0393 ± 0.0022		0.2953 ± 0.0247		248.3 ± 13.8		262.7 ± 19.4	
054-32	0.0261 ± 0.0015		0.1868 ± 0.0156		166.4 ± 9.3		173.9 ± 13.4	
054-34	0.3231 ± 0.0183		5.2534 ± 0.4399		1804.9 ± 89.3		1861.3 ± 71.5	
054-37	0.0196 ± 0.0011		0.1584 ± 0.0133		125.4 ± 7.0		149.3 ± 11.6	
054-38	0.3722 ± 0.0211		7.7226 ± 0.6466		2039.6 ± 99.2		2199.2 ± 75.4	
054-42	0.2496 ± 0.0136		4.0767 ± 0.3231		1436.3 ± 70.4		1649.7 ± 64.7	
054-44	0.0292 ± 0.0016		0.1682 ± 0.0133		185.6 ± 10.0		157.8 ± 11.6	
054-45	0.0232 ± 0.0013		0.1406 ± 0.0111		147.6 ± 8.0		133.6 ± 9.9	
054-46	0.0332 ± 0.0018		0.1948 ± 0.0154		210.8 ± 11.3		180.7 ± 13.1	
054-48	0.3099 ± 0.0169		5.6248 ± 0.4582		1740.4 ± 83.4		1919.9 ± 70.3	

All errors are quoted at 2σ .

TABLE 5. LA-ICPMS isotopic analytical data for detrial zircons from the Simanto metamorphic rocks (BK7)

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age			
					$^{238}\text{U}/^{206}\text{Pb}$		$^{235}\text{U}/^{207}\text{Pb}$	
BK7-1	0.0346 ± 0.0021		0.2406 ± 0.0702		221.9 ± 13.1		266.7 ± 55.2	
BK7-3	0.0706 ± 0.0047		0.5096 ± 0.1774		442.7 ± 28.0		540.9 ± 100.8	
BK7-4	0.2211 ± 0.0083		3.3730 ± 0.2783		1294.0 ± 43.2		1473.4 ± 65.3	
BK7-6	0.2850 ± 0.0104		4.6466 ± 0.3522		1625.2 ± 51.8		1738.5 ± 62.4	
BK7-10	0.0143 ± 0.0011		0.1028 ± 0.0254		92.3 ± 6.9		119.9 ± 22.2	
BK7-11	0.0245 ± 0.0011		0.2272 ± 0.0362		156.7 ± 6.9		213.8 ± 28.1	
BK7-15	0.2971 ± 0.0135		4.8790 ± 0.4815		1694.0 ± 66.9		1746.7 ± 84.6	
BK7-17	0.3418 ± 0.0090		5.8428 ± 0.2247		1903.6 ± 43.2		1949.8 ± 33.3	
BK7-23	0.3192 ± 0.0165		5.2731 ± 0.5723		1800.8 ± 79.1		1805.1 ± 92.3	
BK7-25	0.2831 ± 0.0100		5.2966 ± 0.4084		1611.8 ± 50.4		1858.0 ± 67.9	
BK7-26	0.3147 ± 0.0104		4.8736 ± 0.3234		1776.2 ± 50.5		1779.9 ± 56.5	
BK7-28	0.2913 ± 0.0072		4.3259 ± 0.2001		1652.7 ± 36.0		1689.2 ± 39.2	
BK7-29	0.3964 ± 0.0233		8.9733 ± 0.9911		2178.8 ± 106.5		2273.9 ± 106.7	
BK7-30	0.0371 ± 0.0031		0.2636 ± 0.0807		237.9 ± 19.1		304.4 ± 59.5	
BK7-31	0.3203 ± 0.0111		5.3868 ± 0.3587		1800.5 ± 54.5		1864.1 ± 56.7	
BK7-32	0.2494 ± 0.0232		3.7984 ± 0.5746		1538.3 ± 112.8		1578.3 ± 100.6	
BK7-34	0.3176 ± 0.0101		4.7671 ± 0.2933		1787.7 ± 49.0		1768.1 ± 51.1	
BK7-36	0.0341 ± 0.0015		0.2314 ± 0.0418		218.4 ± 9.3		228.8 ± 31.8	
BK7-37	0.0143 ± 0.0009		0.0880 ± 0.0189		91.2 ± 5.5		100.2 ± 15.9	
BK7-38	0.0179 ± 0.0011		0.1208 ± 0.0326		113.4 ± 7.2		144.3 ± 29.9	
BK7-39	0.0316 ± 0.0029		0.2142 ± 0.0658		208.7 ± 18.2		260.0 ± 51.0	
BK7-43	0.3162 ± 0.0106		5.2617 ± 0.2809		1795.0 ± 51.2		1863.9 ± 44.2	
BK7-44	0.0408 ± 0.0028		0.2971 ± 0.0859		259.7 ± 17.5		355.4 ± 62.7	
BK7-47	0.0149 ± 0.0010		0.0878 ± 0.0245		97.0 ± 6.5		113.0 ± 23.1	
BK7-48	0.3224 ± 0.0098		5.5386 ± 0.3414		1802.4 ± 47.4		1892.4 ± 51.8	
BK7-49	0.2037 ± 0.0075		3.2021 ± 0.2640		1198.9 ± 40.4		1430.1 ± 64.6	
BK7-50	0.2382 ± 0.0196		3.1635 ± 0.5414		1478.9 ± 99.2		1421.6 ± 126.3	
BK7-53	0.0302 ± 0.0019		0.1862 ± 0.0433		196.3 ± 11.8		187.1 ± 34.7	
BK7-54	0.0140 ± 0.0009		0.0987 ± 0.0218		91.8 ± 5.4		109.7 ± 19.2	
BK7-56	0.2739 ± 0.0092		4.2508 ± 0.2473		1569.8 ± 46.0		1672.8 ± 46.3	
BK7-60	0.0390 ± 0.0026		0.2235 ± 0.0892		247.7 ± 15.8		331.6 ± 74.8	
BK7-61	0.2168 ± 0.0074		3.4087 ± 0.3228		1273.1 ± 39.2		1478.2 ± 72.8	
BK7-62	0.0327 ± 0.0019		0.2424 ± 0.0496		208.4 ± 11.8		232.4 ± 37.2	
BK7-63	0.0223 ± 0.0009		0.1463 ± 0.0248		141.6 ± 5.8		137.8 ± 21.0	
BK7-65	0.0232 ± 0.0012		0.1609 ± 0.0390		148.5 ± 7.6		166.3 ± 30.9	
BK7-65-2	0.0256 ± 0.0014		0.1999 ± 0.0323		164.2 ± 8.5		189.0 ± 26.0	
BK7-66	0.2010 ± 0.0075		2.8986 ± 0.2362		1185.3 ± 40.3		1364.2 ± 62.4	
BK7-68	0.1739 ± 0.0093		2.6193 ± 0.2266		1049.7 ± 51.1		1295.8 ± 61.2	
BK7-69	0.0162 ± 0.0008		0.1263 ± 0.0284		104.7 ± 5.4		139.5 ± 23.8	
BK7-70	0.0373 ± 0.0021		0.2253 ± 0.0704		239.3 ± 13.2		258.7 ± 57.4	
BK7-71	0.0165 ± 0.0012		0.0811 ± 0.0249		105.8 ± 7.7		123.5 ± 24.7	
BK7-72	0.2954 ± 0.0086		4.4704 ± 0.2349		1678.6 ± 42.4		1717.0 ± 41.8	
BK7-76	0.3199 ± 0.0098		5.2295 ± 0.3859		1796.1 ± 47.7		1822.6 ± 65.2	
BK7-77	0.2755 ± 0.0104		3.9885 ± 0.2943		1575.4 ± 52.3		1606.8 ± 64.3	
BK7-80	0.2910 ± 0.0116		4.5386 ± 0.3819		1655.5 ± 57.4		1704.5 ± 76.2	
BK7-82	0.3053 ± 0.0112		4.6603 ± 0.3351		1727.1 ± 54.8		1740.2 ± 60.5	
BK7-83	0.3186 ± 0.0135		4.9406 ± 0.3943		1794.5 ± 64.9		1786.3 ± 65.4	
BK7-86	0.3280 ± 0.0100		5.5921 ± 0.2957		1823.8 ± 48.4		1898.4 ± 46.7	
BK7-87	0.0328 ± 0.0020		0.2289 ± 0.0614		208.1 ± 12.7		286.2 ± 47.2	
BK7-88	0.4119 ± 0.0094		8.0551 ± 0.2553		2230.8 ± 42.9		2234.9 ± 28.9	

All errors are quoted at 2σ .

TABLE 6. LA-ICPMS isotopic analytical data for detrial zircons from the Simanto metamorphic rocks (BK12)

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age			
					$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$		
BK12-2	0.326 ± 0.01		5.064 ± 0.234		1832.6 ± 47.8		1824.7 ± 40.3	
BK12-3	0.335 ± 0.006		5.005 ± 0.142		1869.3 ± 30.6		1817.5 ± 24.3	
BK12-4	0.433 ± 0.009		9.466 ± 0.239		2325.0 ± 39.3		2383.0 ± 23.3	
BK12-5	0.404 ± 0.018		9.049 ± 0.691		2224.0 ± 83.2		2324.8 ± 72.8	
BK12-7	0.331 ± 0.01		5.149 ± 0.259		1853.0 ± 47.2		1835.6 ± 45.7	
BK12-8	0.328 ± 0.008		5.299 ± 0.216		1840.7 ± 40.5		1865.9 ± 35.8	
BK12-10	0.305 ± 0.007		4.574 ± 0.174		1713.6 ± 33.2		1738.0 ± 31.8	
BK12-11	0.033 ± 0.001		0.251 ± 0.039		211.3 ± 8.3		229.0 ± 30.6	
BK12-12	0.272 ± 0.009		4.754 ± 0.199		1564.7 ± 43.2		1775.6 ± 34.7	
BK12-13	0.013 ± 0.001		0.079 ± 0.025		85.3 ± 6.5		120.1 ± 25.9	
BK12-16	0.014 ± 0.001		0.137 ± 0.017		91.2 ± 3.5		130.0 ± 14.7	
BK12-17	0.32 ± 0.013		5.289 ± 0.336		1842.1 ± 64.2		1891.6 ± 50.7	
BK12-18	0.278 ± 0.007		4.236 ± 0.126		1571.6 ± 35.7		1675.7 ± 24.5	
BK12-19	0.16 ± 0.007		2.234 ± 0.149		978.4 ± 37.5		1193.5 ± 47.0	
BK12-20	0.214 ± 0.006		3.356 ± 0.164		1247.3 ± 33.7		1483.9 ± 38.1	
BK12-22	0.323 ± 0.01		5.033 ± 0.232		1832.1 ± 47.4		1823.0 ± 38.4	
BK12-23	0.076 ± 0.003		0.913 ± 0.079		474.1 ± 20.6		653.1 ± 41.3	
BK12-24	0.316 ± 0.006		4.82 ± 0.149		1759.8 ± 29.5		1778.0 ± 25.8	
BK12-25	0.481 ± 0.013		10.452 ± 0.422		2572.3 ± 54.5		2481.9 ± 36.5	
BK12-26	0.015 ± 0		0.12 ± 0.013		96.0 ± 2.6		114.8 ± 11.7	
BK12-28	0.027 ± 0.001		0.201 ± 0.016		174.2 ± 4.8		185.5 ± 13.2	
BK12-30	0.027 ± 0.001		0.181 ± 0.017		172.3 ± 5.8		167.1 ± 14.0	
BK12-33	0.028 ± 0.002		0.185 ± 0.043		176.5 ± 11.2		204.8 ± 34.3	
BK12-34	0.028 ± 0.001		0.194 ± 0.02		179.8 ± 5.9		179.5 ± 16.7	
BK12-35	0.356 ± 0.007		5.207 ± 0.159		1972.8 ± 31.3		1857.3 ± 25.3	
BK12-36	0.063 ± 0.004		0.721 ± 0.074		383.6 ± 24.7		537.1 ± 43.2	
BK12-37	0.026 ± 0.001		0.162 ± 0.019		164.1 ± 4.7		151.4 ± 16.4	
BK12-38	0.33 ± 0.007		4.691 ± 0.126		1845.5 ± 33.5		1765.8 ± 22.6	
BK12-39	0.258 ± 0.005		3.718 ± 0.107		1488.3 ± 27.7		1574.0 ± 23.0	
BK12-40	0.014 ± 0.001		0.091 ± 0.027		88.4 ± 5.8		114.2 ± 26.4	
BK12-41	0.339 ± 0.006		7.438 ± 0.183		1879.9 ± 30.5		2161.4 ± 22.2	
BK12-42	0.259 ± 0.005		3.857 ± 0.121		1488.1 ± 24.0		1600.5 ± 25.9	
BK12-44	0.014 ± 0.001		0.098 ± 0.023		91.3 ± 4.3		120.7 ± 20.1	
BK12-45	0.325 ± 0.008		5.078 ± 0.196		1826.4 ± 39.5		1834.8 ± 32.9	
BK12-46	0.033 ± 0.002		0.248 ± 0.063		211.8 ± 10.7		266.9 ± 47.5	
BK12-49	0.391 ± 0.013		7.736 ± 0.328		2142.8 ± 59.8		2205.0 ± 38.6	
BK12-50	0.321 ± 0.007		5.057 ± 0.194		1779.0 ± 36.1		1806.7 ± 33.7	
BK12-52	0.071 ± 0.009		0.539 ± 0.116		488.4 ± 51.7		436.5 ± 67.7	
BK12-53	0.39 ± 0.014		7.093 ± 0.388		2169.3 ± 65.0		2143.9 ± 45.4	
BK12-54	0.293 ± 0.005		4.41 ± 0.132		1657.9 ± 27.0		1712.2 ± 25.4	
BK12-55	0.334 ± 0.007		4.941 ± 0.156		1856.2 ± 35.9		1807.2 ± 26.2	
BK12-57	0.352 ± 0.018		6.228 ± 0.556		2069.8 ± 85.1		2068.5 ± 70.6	
BK12-59	0.015 ± 0.001		0.095 ± 0.017		96.6 ± 4.1		100.9 ± 14.0	
BK12-61	0.027 ± 0.001		0.247 ± 0.031		179.1 ± 8.2		222.0 ± 24.9	

All errors are quoted at 2σ .

TABLE 7. LA-ICPMS isotopic analytical data for detrial zircons from the Simanto metamorphic rocks (NK1)

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age			
					$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$		
NK-2	0.0178 ± 0.0007		0.1115 ± 0.0085		114.0 ± 4.4	107.3 ± 7.8		
NK-3	0.0167 ± 0.0006		0.1162 ± 0.0089		106.6 ± 4.1	111.7 ± 8.1		
NK-4	0.0158 ± 0.0006		0.1123 ± 0.0086		100.8 ± 3.9	108.1 ± 7.9		
NK-5	0.2799 ± 0.0108		4.2670 ± 0.3271		1591.0 ± 54.4	1687.0 ± 63.1		
NK-6	0.0430 ± 0.0017		0.3486 ± 0.0267		271.1 ± 10.2	303.7 ± 20.1		
NK-7	0.2803 ± 0.0108		4.2927 ± 0.3291		1592.8 ± 54.5	1692.0 ± 63.2		
NK-8	0.0247 ± 0.0010		0.1685 ± 0.0122		157.5 ± 6.2	158.1 ± 10.6		
NK-9	0.0168 ± 0.0007		0.1347 ± 0.0098		107.4 ± 4.3	128.3 ± 8.8		
NK-10	0.0156 ± 0.0006		0.1031 ± 0.0075		99.7 ± 4.0	99.7 ± 6.9		
NK-12	0.0146 ± 0.0006		0.0885 ± 0.0064		93.7 ± 3.7	86.1 ± 6.0		
NK-16	0.3482 ± 0.0140		5.4469 ± 0.3956		1926.2 ± 66.7	1892.3 ± 62.4		
NK-17	0.4360 ± 0.0175		9.4289 ± 0.6849		2332.5 ± 78.4	2380.6 ± 66.8		
NK-18	0.0154 ± 0.0006		0.1086 ± 0.0079		98.7 ± 3.9	104.7 ± 7.2		
NK-19	0.0137 ± 0.0005		0.1090 ± 0.0079		87.6 ± 3.5	105.1 ± 7.3		
NK-20	0.3144 ± 0.0173		5.1778 ± 0.4719		1762.5 ± 84.9	1849.0 ± 77.7		
NK-21	0.0250 ± 0.0014		0.1859 ± 0.0169		159.4 ± 8.7	173.1 ± 14.5		
NK-22	0.0159 ± 0.0009		0.1010 ± 0.0092		101.6 ± 5.5	97.7 ± 8.5		
NK-23	0.0173 ± 0.0010		0.1248 ± 0.0114		110.7 ± 6.0	119.4 ± 10.3		
NK-24	0.0162 ± 0.0009		0.1181 ± 0.0108		103.4 ± 5.6	113.3 ± 9.8		
NK-25	0.0163 ± 0.0009		0.1020 ± 0.0093		103.9 ± 5.7	98.6 ± 8.6		
NK-27	0.0162 ± 0.0009		0.1203 ± 0.0110		103.4 ± 5.6	115.4 ± 9.9		
NK-28	0.0181 ± 0.0010		0.1309 ± 0.0119		115.3 ± 6.3	124.9 ± 10.7		
NK-29	0.0404 ± 0.0022		0.3146 ± 0.0287		255.5 ± 13.8	277.7 ± 22.2		
NK-31	0.0151 ± 0.0008		0.0856 ± 0.0059		96.3 ± 4.9	83.4 ± 5.5		
NK-32	0.0407 ± 0.0021		0.3428 ± 0.0235		257.1 ± 13.0	299.3 ± 17.8		
NK-33	0.0140 ± 0.0007		0.0900 ± 0.0062		89.9 ± 4.6	87.5 ± 5.8		
NK-34	0.0145 ± 0.0007		0.1189 ± 0.0082		92.8 ± 4.7	114.1 ± 7.4		
NK-35	0.0137 ± 0.0007		0.0940 ± 0.0065		87.7 ± 4.5	91.2 ± 6.0		
NK-36	0.0413 ± 0.0021		0.3181 ± 0.0218		261.1 ± 13.2	280.4 ± 16.8		
NK-37	0.0148 ± 0.0005		0.1073 ± 0.0055		94.7 ± 3.2	103.5 ± 5.1		
NK-38	0.0163 ± 0.0006		0.1134 ± 0.0058		104.4 ± 3.6	109.1 ± 5.3		
NK-41	0.0154 ± 0.0005		0.1160 ± 0.0060		98.3 ± 3.4	111.4 ± 5.4		
NK-43	0.0145 ± 0.0005		0.1167 ± 0.0060		92.6 ± 3.2	112.1 ± 5.5		
NK-45	0.0153 ± 0.0005		0.1039 ± 0.0054		97.9 ± 3.4	100.4 ± 4.9		
NK-46	0.0428 ± 0.0015		0.2917 ± 0.0150		270.1 ± 9.1	259.9 ± 11.8		
NK-47	0.0348 ± 0.0012		0.2293 ± 0.0118		220.4 ± 7.5	209.6 ± 9.8		
NK-49	0.0395 ± 0.0014		0.3055 ± 0.0157		249.8 ± 8.5	270.7 ± 12.2		
NK-50	0.0146 ± 0.0004		0.1069 ± 0.0064		93.3 ± 2.8	103.1 ± 5.9		

TABLE 7. Continued

Spot number	$^{206}\text{Pb}/^{238}\text{U}$		$^{207}\text{Pb}/^{235}\text{U}$		Age			
					$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$		
NK-51	0.0168 ± 0.0005		0.1113 ± 0.0067		107.7 ± 3.3	107.2 ± 6.1		
NK-52	0.0189 ± 0.0006		0.1589 ± 0.0095		120.8 ± 3.7	149.8 ± 8.3		
NK-53	0.0246 ± 0.0008		0.1646 ± 0.0099		156.4 ± 4.7	154.7 ± 8.6		
NK-54	0.3639 ± 0.0111		6.2708 ± 0.3760		2000.7 ± 52.6	2014.4 ± 52.6		
NK-56	0.0182 ± 0.0006		0.1368 ± 0.0082		116.3 ± 3.5	130.2 ± 7.3		
NK-57	0.0136 ± 0.0004		0.1047 ± 0.0063		87.1 ± 2.6	101.1 ± 5.8		
NK-58	0.5130 ± 0.0157		12.8642 ± 0.7714		2669.3 ± 66.9	2669.8 ± 56.6		
NK-59	0.0181 ± 0.0006		0.1412 ± 0.0098		115.4 ± 4.0	134.1 ± 8.7		
NK-60	0.0160 ± 0.0006		0.1217 ± 0.0085		102.1 ± 3.5	116.6 ± 7.7		
NK-63	0.0190 ± 0.0007		0.1502 ± 0.0106		121.2 ± 4.2	142.1 ± 9.3		
NK-64	0.0150 ± 0.0005		0.1255 ± 0.0087		96.2 ± 3.3	120.0 ± 7.9		
NK-65	0.0173 ± 0.0006		0.1424 ± 0.0099		110.4 ± 3.8	135.2 ± 8.8		
NK-66	0.0147 ± 0.0010		0.1017 ± 0.0102		93.9 ± 6.6	98.3 ± 9.4		
NK-67	0.4485 ± 0.0318		8.6708 ± 0.8735		2388.6 ± 141.4	2304.0 ± 92.0		
NK-69	0.0153 ± 0.0011		0.1076 ± 0.0108		97.9 ± 6.9	103.8 ± 9.9		
NK-70	0.0171 ± 0.0012		0.1186 ± 0.0119		109.3 ± 7.7	113.8 ± 10.8		
NK-71	0.0153 ± 0.0026		0.1135 ± 0.0203		97.8 ± 16.2	109.1 ± 18.5		
NK-72	0.0143 ± 0.0024		0.0890 ± 0.0159		91.5 ± 15.2	86.6 ± 14.9		
NK-73	0.0154 ± 0.0026		0.0917 ± 0.0164		98.3 ± 16.3	89.1 ± 15.3		
NK-74	0.0130 ± 0.0022		0.0780 ± 0.0140		83.1 ± 13.8	76.3 ± 13.2		
NK-75	0.0154 ± 0.0026		0.1075 ± 0.0193		98.5 ± 16.3	103.7 ± 17.7		
NK-76	0.0128 ± 0.0021		0.0938 ± 0.0168		82.3 ± 13.6	91.0 ± 15.6		
NK-77	0.0139 ± 0.0023		0.0847 ± 0.0152		89.1 ± 14.8	82.5 ± 14.2		
NK-78	0.0149 ± 0.0025		0.1023 ± 0.0183		95.3 ± 15.8	98.9 ± 16.9		
NK-79	0.0179 ± 0.0030		0.1415 ± 0.0253		114.4 ± 18.9	134.4 ± 22.5		
NK-80	0.0153 ± 0.0026		0.1018 ± 0.0182		98.0 ± 16.2	98.5 ± 16.8		
NK-82	0.0298 ± 0.0012		0.2150 ± 0.0113		189.3 ± 7.7	197.7 ± 9.4		
NK-84	0.0194 ± 0.0008		0.1308 ± 0.0069		123.7 ± 5.0	124.8 ± 6.2		
NK-85	0.0178 ± 0.0007		0.1365 ± 0.0072		113.8 ± 4.6	129.9 ± 6.4		
NK-87	0.0170 ± 0.0007		0.1204 ± 0.0063		108.4 ± 4.4	115.4 ± 5.7		
NK-89	0.3564 ± 0.0146		5.5180 ± 0.2891		1964.9 ± 69.6	1903.4 ± 45.1		
NK-91	0.0154 ± 0.0005		0.1127 ± 0.0059		98.8 ± 2.9	108.4 ± 5.4		
NK-92	0.0145 ± 0.0004		0.1013 ± 0.0053		92.9 ± 2.7	98.0 ± 4.9		
NK-93	0.0170 ± 0.0005		0.1114 ± 0.0058		108.6 ± 3.2	107.2 ± 5.3		
NK-94	0.0146 ± 0.0004		0.0932 ± 0.0049		93.6 ± 2.7	90.4 ± 4.5		
NK-95	0.0166 ± 0.0005		0.1039 ± 0.0054		105.8 ± 3.1	100.3 ± 5.0		
NK-96	0.0186 ± 0.0005		0.1266 ± 0.0066		118.5 ± 3.5	121.0 ± 6.0		
NK-99	0.0146 ± 0.0004		0.1045 ± 0.0055		93.6 ± 2.7	100.9 ± 5.0		

All errors are quoted at 2σ .

TABLE 8. LA-ICPMS isotopic analytical data for detrial zircons from the Izumi group

Spot number	$^{206}\text{Pb}/^{238}\text{U}$			$^{207}\text{Pb}/^{235}\text{U}$			Age		
							$^{238}\text{U}/^{206}\text{Pb}$	$^{235}\text{U}/^{207}\text{Pb}$	
Iz-1	0.0179	\pm	0.0004	0.1163	\pm	0.0061	114.3	\pm	2.7
Iz-2	0.0142	\pm	0.0004	0.1003	\pm	0.0081	90.8	\pm	2.6
Iz-3	0.0165	\pm	0.0004	0.1110	\pm	0.0053	105.5	\pm	2.5
Iz-4	0.0146	\pm	0.0003	0.1008	\pm	0.0051	93.1	\pm	2.2
Iz-5	0.0397	\pm	0.0012	0.3019	\pm	0.0264	250.8	\pm	7.6
Iz-6	0.0143	\pm	0.0006	0.0805	\pm	0.0134	91.4	\pm	4.1
Iz-7	0.0137	\pm	0.0004	0.0951	\pm	0.0063	87.5	\pm	2.3
Iz-8	0.3272	\pm	0.0071	5.1627	\pm	0.2131	1824.7	\pm	45.9
Iz-9	0.0139	\pm	0.0005	0.0888	\pm	0.0111	88.8	\pm	3.3
Iz-10	0.0162	\pm	0.0010	0.0004	\pm	0.0062	103.4	\pm	2.7
Iz-11	0.0162	\pm	0.0010	0.0004	\pm	0.0067	103.7	\pm	2.8
Iz-12	0.0146	\pm	0.0130	0.0004	\pm	0.0055	93.5	\pm	2.4
Iz-13	0.0149	\pm	0.0070	0.0004	\pm	0.0067	95.2	\pm	2.7
Iz-14	0.0154	\pm	0.0070	0.0004	\pm	0.0071	98.5	\pm	2.8
Iz-15	0.0136	\pm	0.0060	0.0004	\pm	0.0060	86.9	\pm	2.4
Iz-16	0.0166	\pm	0.0100	0.0005	\pm	0.0072	106.3	\pm	2.9
Iz-17	0.0134	\pm	0.0030	0.0004	\pm	0.0084	85.7	\pm	2.7
Iz-18	0.0151	\pm	0.0060	0.0004	\pm	0.0053	96.6	\pm	2.5
Iz-19	0.0142	\pm	0.0005	0.0951	\pm	0.0060	91.0	\pm	3.3
Iz-20	0.0151	\pm	0.0005	0.1098	\pm	0.0058	96.6	\pm	3.5
Iz-21	0.0145	\pm	0.0005	0.1022	\pm	0.0053	93.0	\pm	3.3
Iz-22	0.0153	\pm	0.0005	0.1057	\pm	0.0046	97.7	\pm	3.4
Iz-23	0.0162	\pm	0.0006	0.1023	\pm	0.0065	103.7	\pm	3.8
Iz-25	0.0131	\pm	0.0005	0.0842	\pm	0.0038	83.7	\pm	2.9
Iz-26	0.0138	\pm	0.0005	0.0895	\pm	0.0045	88.5	\pm	3.1
Iz-27	0.0226	\pm	0.0008	0.1461	\pm	0.0060	144.2	\pm	5.0
Iz-28	0.0141	\pm	0.0005	0.0990	\pm	0.0061	90.3	\pm	3.2
Iz-29	0.0147	\pm	0.0005	0.0866	\pm	0.0052	93.8	\pm	3.3
Iz-30	0.0154	\pm	0.0005	0.1028	\pm	0.0046	98.4	\pm	3.3
Iz-31	0.0152	\pm	0.0005	0.0981	\pm	0.0047	97.4	\pm	3.3
Iz-32	0.0128	\pm	0.0005	0.0761	\pm	0.0063	81.8	\pm	3.1
Iz-33	0.0179	\pm	0.0006	0.1173	\pm	0.0045	114.1	\pm	3.8
Iz-34	0.0145	\pm	0.0005	0.1026	\pm	0.0062	92.6	\pm	3.3
Iz-35	0.0155	\pm	0.0005	0.0967	\pm	0.0044	98.8	\pm	3.4
Iz-36	0.0141	\pm	0.0005	0.0941	\pm	0.0045	90.3	\pm	3.1
Iz-37	0.0177	\pm	0.0005	0.1256	\pm	0.0060	113.4	\pm	3.2
Iz-38	0.0152	\pm	0.0005	0.1096	\pm	0.0074	97.1	\pm	3.0
Iz-39	0.1688	\pm	0.0045	1.6179	\pm	0.0588	1005.8	\pm	28.8
Iz-40	0.0158	\pm	0.0005	0.1198	\pm	0.0094	101.2	\pm	3.3
Iz-41	0.0154	\pm	0.0004	0.1056	\pm	0.0057	98.6	\pm	2.8
Iz-42	0.0147	\pm	0.0005	0.0928	\pm	0.0069	94.3	\pm	3.0
Iz-43	0.0146	\pm	0.0004	0.1040	\pm	0.0058	93.1	\pm	2.7
Iz-44	0.0161	\pm	0.0005	0.1120	\pm	0.0056	103.1	\pm	2.9
Iz-45	0.0157	\pm	0.0004	0.1154	\pm	0.0059	100.7	\pm	2.9

All errors are quoted at 2σ .