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Supplemental Material

Table S1. U-Pb data of zircons for the samples from the Anziling area.

Table S1. U-Pb data of zircons for the samples from the Anziling area

Sample	U	Th	Th/U	²⁰⁷ Pb/ ²⁰⁶ Pb		²⁰⁷ Pb/ ²³⁵ U		²⁰⁶ Pb/ ²³⁸ U		²⁰⁷ Pb/ ²⁰⁶ Pb		²⁰⁷ Pb/ ²³⁵ U		²⁰⁶ Pb/ ²³⁸ U		Disconcordance
spot	ppm	ppm		ratio	1σ	ratio	1σ	ratio	1σ	age (Ma)	1σ	age (Ma)	1σ	age (Ma)	1σ	
19JD87-1 Tonalitic gneiss																
19JD87-1-11	560.04	90.26	0.16	0.1631	0.0033	10.7789	0.2491	0.4790	0.0110	2488	33	2504	21	2523	48	0.75%
19JD87-1-24	57.03	38.70	0.68	0.1635	0.0033	10.8834	0.2416	0.4842	0.0107	2492	34	2513	21	2546	46	1.27%
19JD87-1-15	553.21	438.84	0.79	0.1637	0.0033	10.8775	0.2487	0.4820	0.0110	2494	33	2513	21	2536	48	0.92%
19JD87-1-5	461.49	479.52	1.04	0.1640	0.0033	10.8042	0.2600	0.4762	0.0113	2497	34	2506	22	2511	49	0.18%
19JD87-1-3	467.57	417.15	0.89	0.1643	0.0033	10.8657	0.2628	0.4777	0.0114	2501	34	2512	22	2517	50	0.22%
19JD87-1-25	363.75	273.64	0.75	0.1653	0.0033	10.9916	0.2396	0.4838	0.0106	2511	33	2522	20	2544	46	0.84%
19JD87-1-21	787.89	552.61	0.70	0.1654	0.0033	10.9620	0.2410	0.4819	0.0107	2512	33	2520	20	2536	46	0.62%
19JD87-1-13	497.15	452.72	0.91	0.1657	0.0033	10.8021	0.2486	0.4728	0.0109	2515	33	2506	21	2496	47	-0.42%
19JD87-1-1	263.86	254.18	0.96	0.1658	0.0034	11.0749	0.2697	0.4824	0.0116	2515	34	2530	23	2538	50	0.32%
19JD87-1-19	830.01	603.07	0.73	0.1665	0.0033	11.0442	0.2467	0.4819	0.0108	2523	33	2527	21	2536	47	0.34%
19JD87-1-8	563.06	507.87	0.90	0.1666	0.0034	11.0400	0.2602	0.4798	0.0112	2524	33	2527	22	2526	49	-0.01%
19JD87-1-23	473.74	477.90	1.01	0.1666	0.0033	11.0134	0.2410	0.4807	0.0106	2524	33	2524	20	2530	46	0.24%
19JD87-1-10	382.28	287.15	0.75	0.1667	0.0034	11.1411	0.2612	0.4841	0.0113	2525	33	2535	22	2545	49	0.40%
19JD87-1-6	803.13	430.87	0.54	0.1669	0.0034	11.0182	0.2611	0.4778	0.0112	2526	33	2525	22	2518	49	-0.27%
19JD87-1-17	474.90	305.03	0.64	0.1669	0.0033	10.9195	0.2455	0.4753	0.0107	2526	33	2516	21	2507	47	-0.39%
19JD87-1-12	425.72	193.46	0.45	0.1670	0.0034	10.9726	0.2536	0.4764	0.0110	2528	33	2521	22	2511	48	-0.37%
19JD87-1-16	367.91	288.19	0.78	0.1681	0.0034	10.9675	0.2474	0.4739	0.0107	2539	33	2520	21	2500	47	-0.80%
19JD87-1-4	767.56	631.43	0.82	0.1681	0.0034	11.0303	0.2659	0.4741	0.0113	2539	33	2526	22	2502	49	-0.96%
19JD87-1-22	705.06	441.36	0.63	0.1694	0.0034	11.1086	0.2438	0.4769	0.0106	2552	33	2532	20	2514	46	-0.74%
19JD87-1-2	812.29	650.78	0.80	0.1695	0.0034	11.1324	0.2699	0.4744	0.0114	2553	33	2534	23	2503	50	-1.26%
19JD87-1-18	1625.47	1605.98	0.99	0.1698	0.0034	11.2842	0.2526	0.4828	0.0109	2555	33	2547	21	2539	47	-0.30%
19JD87-1-20	844.53	981.25	1.16	0.1700	0.0034	11.1236	0.2478	0.4754	0.0107	2558	33	2534	21	2507	47	-1.05%
19JD87-1-14	843.76	613.27	0.73	0.1715	0.0034	11.2687	0.2581	0.4767	0.0109	2572	33	2546	21	2513	48	-1.31%
19JD87-1-7	932.35	1354.86	1.45	0.1722	0.0035	11.3936	0.2691	0.4789	0.0112	2579	33	2556	22	2522	49	-1.33%
19JD87-1-9	531.28	380.75	0.72	0.1734	0.0035	11.4529	0.2691	0.4784	0.0112	2590	33	2561	22	2520	49	-1.61%
19JD44-3 Amphibolite																
19JD44-3-5	6123.19	12485.21	2.04	0.1593	0.0032	10.1428	0.2059	0.4572	0.0093	2449	33	2448	19	2427	41	-0.86%

19JD44-3-9	3828.86	729.31	0.19	0.1595	0.0032	8.8162	0.1804	0.3975	0.0081	2450	33	2319	19	2158	37	-7.49%
19JD44-3-15	1449.65	1885.40	1.30	0.1632	0.0033	9.8134	0.2029	0.4331	0.0088	2489	34	2417	19	2320	40	-4.22%
19JD44-3-7	393.16	130.87	0.33	0.1644	0.0033	10.7582	0.2198	0.4704	0.0096	2502	33	2503	19	2485	42	-0.70%
19JD44-3-2	940.01	286.72	0.31	0.1659	0.0033	10.8729	0.2201	0.4705	0.0095	2517	33	2512	19	2486	42	-1.07%
19JD44-3-14	2419.65	468.48	0.19	0.1659	0.0033	10.5611	0.2181	0.4584	0.0093	2517	33	2485	19	2433	41	-2.17%
19JD44-3-1	1694.84	197.80	0.12	0.1661	0.0033	11.1298	0.2250	0.4810	0.0098	2519	33	2534	19	2532	42	-0.10%
19JD44-3-3	1782.05	1483.48	0.83	0.1664	0.0033	10.8927	0.2207	0.4700	0.0095	2522	33	2514	19	2483	42	-1.23%
19JD44-3-10	2619.19	8201.40	3.13	0.1667	0.0033	10.6425	0.2180	0.4592	0.0093	2525	33	2492	19	2436	41	-2.32%
19JD44-3-11	3234.25	231.69	0.07	0.1673	0.0034	10.9636	0.2257	0.4717	0.0096	2531	33	2520	19	2491	42	-1.16%
19JD44-3-8	831.22	267.18	0.32	0.1674	0.0033	10.4343	0.2134	0.4481	0.0091	2532	33	2474	19	2387	41	-3.65%
19JD44-3-4	1936.12	7135.11	3.69	0.1679	0.0033	11.5160	0.2336	0.4925	0.0100	2537	33	2566	19	2582	43	0.61%
19JD44-3-12	701.48	36.84	0.05	0.1681	0.0034	10.8213	0.2231	0.4636	0.0094	2538	33	2508	19	2455	42	-2.14%
19JD44-3-17	945.39	105.69	0.11	0.1684	0.0034	11.4767	0.2388	0.4915	0.0100	2541	34	2563	19	2577	43	0.56%
19JD44-3-13	1090.73	137.97	0.13	0.1684	0.0034	10.1860	0.2102	0.4355	0.0089	2542	33	2452	19	2331	40	-5.20%
19JD44-3-20	2263.85	436.09	0.19	0.1690	0.0034	11.4130	0.2381	0.4871	0.0099	2548	34	2558	19	2558	43	0.02%
19JD44-3-16	1560.11	304.71	0.20	0.1693	0.0034	10.3749	0.2156	0.4418	0.0090	2551	34	2469	19	2359	40	-4.66%
19JD44-3-19	833.00	36.28	0.04	0.1696	0.0034	11.1542	0.2325	0.4744	0.0097	2554	34	2536	19	2503	42	-1.33%
19JD44-3-18	1625.37	1111.99	0.68	0.1710	0.0035	11.5535	0.2406	0.4872	0.0099	2567	34	2569	19	2559	43	-0.40%
19JD44-3-6	1067.29	633.03	0.59	0.1712	0.0034	11.5230	0.2351	0.4837	0.0098	2570	33	2566	19	2544	43	-0.90%
19JD44-1 Granodiorite																
19JD44-1-2	129.55	139.17	1.07	0.1609	0.0036	11.1955	0.2678	0.5077	0.0112	2466	37	2540	22	2647	48	4.05%
19JD44-1-3	330.41	108.25	0.33	0.1616	0.0035	9.7257	0.2273	0.4390	0.0096	2472	36	2409	22	2346	43	-2.68%
19JD44-1-13	159.98	394.58	2.47	0.1620	0.0035	10.2290	0.2402	0.4548	0.0100	2477	36	2456	22	2416	44	-1.63%
19JD44-1-15	99.70	113.21	1.14	0.1627	0.0035	10.2142	0.2399	0.4515	0.0100	2484	35	2454	22	2402	44	-2.18%
19JD44-1-17	174.83	395.11	2.26	0.1633	0.0034	10.4983	0.2442	0.4607	0.0102	2490	35	2480	22	2443	45	-1.51%
19JD44-1-16	104.19	209.69	2.01	0.1633	0.0034	10.4600	0.2440	0.4592	0.0102	2490	35	2476	22	2436	45	-1.66%
19JD44-1-14	97.30	100.50	1.03	0.1636	0.0035	10.4181	0.2439	0.4584	0.0101	2493	35	2473	22	2432	45	-1.66%
19JD44-1-18	113.94	191.45	1.68	0.1641	0.0036	12.1831	0.2963	0.5316	0.0119	2498	37	2619	23	2748	50	4.71%
19JD44-1-10	150.91	88.03	0.58	0.1644	0.0035	11.4730	0.2684	0.5052	0.0111	2501	36	2562	22	2636	48	2.80%
19JD44-1-6	143.24	105.53	0.74	0.1644	0.0036	11.3628	0.2683	0.5016	0.0110	2501	36	2553	22	2621	47	2.57%
19JD44-1-12	147.11	115.52	0.79	0.1645	0.0035	11.0781	0.2579	0.4855	0.0107	2502	35	2530	22	2551	46	0.83%

19JD44-1-1	186.95	325.79	1.74	0.1648	0.0036	10.0710	0.2373	0.4464	0.0098	2505	36	2441	22	2379	44	-2.62%
19JD44-1-8	191.70	287.01	1.50	0.1648	0.0035	9.9747	0.2327	0.4387	0.0096	2505	36	2432	22	2345	43	-3.74%
19JD44-1-7	304.96	100.32	0.33	0.1649	0.0035	11.4773	0.2680	0.5047	0.0111	2507	36	2563	22	2634	47	2.71%
19JD44-1-9	204.60	386.64	1.89	0.1656	0.0036	10.9358	0.2563	0.4783	0.0105	2514	36	2518	22	2520	46	0.08%
19JD44-1-20	226.32	538.51	2.38	0.1664	0.0035	10.3535	0.2419	0.4449	0.0099	2522	35	2467	22	2373	44	-3.97%
19JD44-1-19	168.60	240.72	1.43	0.1665	0.0035	10.5478	0.2458	0.4533	0.0100	2523	35	2484	22	2410	45	-3.08%
19JD44-1-11	180.58	164.70	0.91	0.1667	0.0036	11.0628	0.2592	0.4787	0.0106	2525	35	2528	22	2522	46	-0.27%
19JD44-1-5	143.43	306.19	2.13	0.1674	0.0037	10.1393	0.2386	0.4412	0.0097	2531	36	2448	22	2356	43	-3.89%
19JD31-1 Biotite-bearing granitic dyke																
19JD31-1-35	2103.31	1298.13	0.62	0.1601	0.0032	7.7699	0.1474	0.3491	0.0065	2457	34	2205	17	1931	31	-14.20%
19JD31-1-24	183.76	88.42	0.48	0.1620	0.0034	10.1256	0.1957	0.4472	0.0082	2477	35	2446	18	2383	36	-2.66%
19JD31-1-33	969.27	504.54	0.52	0.1623	0.0033	9.2097	0.1754	0.4079	0.0076	2480	34	2359	17	2206	35	-6.96%
19JD31-1-22	652.38	266.31	0.41	0.1624	0.0033	10.1838	0.1920	0.4483	0.0081	2481	34	2452	17	2388	36	-2.67%
19JD31-1-40	409.00	101.55	0.25	0.1631	0.0033	9.8731	0.1895	0.4366	0.0082	2488	34	2423	18	2336	37	-3.74%
19JD31-1-36	822.31	399.04	0.49	0.1633	0.0033	10.3701	0.1974	0.4576	0.0086	2490	34	2468	18	2429	38	-1.63%
19JD31-1-23	1389.25	738.30	0.53	0.1635	0.0033	10.0346	0.1889	0.4390	0.0080	2492	34	2438	17	2346	36	-3.92%
19JD31-1-29	310.05	125.10	0.40	0.1638	0.0034	9.8882	0.1889	0.4329	0.0080	2496	34	2424	18	2319	36	-4.55%
19JD31-1-31	6458.51	187.72	0.03	0.1649	0.0033	8.5300	0.1616	0.3718	0.0069	2506	34	2289	17	2038	32	-12.33%
19JD31-1-26	433.10	166.32	0.38	0.1649	0.0034	10.1338	0.1920	0.4403	0.0081	2507	34	2447	18	2352	36	-4.03%
19JD31-1-28	792.70	290.90	0.37	0.1652	0.0034	9.6492	0.1828	0.4188	0.0077	2510	34	2402	17	2255	35	-6.51%
19JD31-1-39	322.17	57.70	0.18	0.1654	0.0034	10.4077	0.1990	0.4537	0.0085	2512	34	2472	18	2412	38	-2.48%
19JD31-1-21	816.94	296.68	0.36	0.1656	0.0034	10.0407	0.1896	0.4335	0.0079	2514	34	2439	17	2322	35	-5.04%
19JD31-1-27	817.90	364.51	0.45	0.1658	0.0034	9.5054	0.1798	0.4110	0.0075	2516	34	2388	17	2219	34	-7.60%
19JD31-1-30	809.02	282.14	0.35	0.1662	0.0034	9.4978	0.1818	0.4100	0.0076	2520	34	2387	18	2215	35	-7.79%
19JD31-1-25	926.80	535.90	0.58	0.1664	0.0034	9.2838	0.1762	0.3994	0.0073	2522	34	2366	17	2166	34	-9.25%
19JD31-1-32	438.98	156.16	0.36	0.1681	0.0034	10.4257	0.1980	0.4458	0.0083	2539	34	2473	18	2376	37	-4.08%
19JD31-1-34	496.90	375.96	0.76	0.1688	0.0034	10.0214	0.1913	0.4270	0.0079	2546	34	2437	18	2292	36	-6.32%
19JD31-1-37	949215.61	482.77	0.00	0.1690	0.0034	10.4839	0.1996	0.4471	0.0084	2548	33	2479	18	2382	37	-4.05%
19JD60-1 Felsic vein																
19JD60-1-1	218.45	177.10	0.81	0.1603	0.0034	9.8388	0.2283	0.4690	0.0108	2459	36	2420	21	2479	47	2.40%
19JD60-1-3	694.31	230.25	0.33	0.1604	0.0034	8.8709	0.2035	0.4216	0.0097	2460	35	2325	21	2268	44	-2.51%

19JD60-1-9	186.72	147.80	0.79	0.1607	0.0035	9.8043	0.2345	0.4591	0.0107	2463	36	2417	22	2435	47	0.77%
19JD60-1-25	492.07	391.53	0.80	0.1607	0.0033	9.5844	0.2330	0.4320	0.0102	2463	35	2396	22	2315	46	-3.49%
19JD60-1-16	312.51	319.48	1.02	0.1610	0.0034	10.0174	0.2396	0.4586	0.0107	2467	35	2436	22	2433	47	-0.13%
19JD60-1-18	175.08	151.17	0.86	0.1613	0.0034	9.6018	0.2306	0.4376	0.0103	2470	35	2397	22	2340	46	-2.46%
19JD60-1-19	271.18	340.25	1.25	0.1614	0.0034	9.8741	0.2391	0.4492	0.0106	2470	35	2423	22	2392	47	-1.32%
19JD60-1-5	122.53	89.05	0.73	0.1617	0.0034	9.9355	0.2287	0.4671	0.0108	2474	35	2429	21	2471	47	1.70%
19JD60-1-6	423.05	446.46	1.06	0.1618	0.0034	9.4018	0.2177	0.4388	0.0101	2475	35	2378	21	2345	45	-1.40%
19JD60-1-12	1012.02	1266.09	1.25	0.1622	0.0034	10.1539	0.2371	0.4666	0.0108	2479	34	2449	22	2469	48	0.79%
19JD60-1-20	409.28	239.58	0.59	0.1623	0.0034	9.9525	0.2377	0.4495	0.0105	2480	34	2430	22	2393	47	-1.56%
19JD60-1-24	412.36	370.46	0.90	0.1626	0.0034	9.7696	0.2363	0.4358	0.0103	2483	34	2413	22	2332	46	-3.50%
19JD60-1-2	303.64	215.29	0.71	0.1626	0.0035	9.9868	0.2324	0.4687	0.0108	2483	36	2434	21	2478	47	1.79%
19JD60-1-21	439.90	385.53	0.88	0.1629	0.0034	9.9025	0.2389	0.4427	0.0104	2486	34	2426	22	2363	47	-2.67%
19JD60-1-15	344.24	232.34	0.67	0.1631	0.0034	9.8262	0.2306	0.4471	0.0104	2488	34	2419	22	2382	46	-1.52%
19JD60-1-11	344.29	370.50	1.08	0.1634	0.0035	9.3228	0.2211	0.4259	0.0099	2491	35	2370	22	2287	45	-3.64%