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Supplemental Material

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ANALYTICAL METHODS

1. Major and trace element analyses

After petrographic examination and removal of altered surfaces, whole-rock samples were crushed and pulverized in an agate mill to ~200 mesh. Chemical analyses were conducted in the Key Laboratory of Mineral Resources Evaluation in Northeast Asia, Ministry of Natural Resources of China, Changchun, China. Major element compositions were analyzed by X-ray fluorescence (XRF; PW2404) using fused glass disks (Liu et al., 2009). Trace element compositions were determined by an Agilent 7500a inductively coupled plasma mass spectrometer (ICP-MS) after acid digestion of samples in Teflon bombs. The repeated analyses of the U.S. Geological Survey basalt and andesite standards (BHVO-1, BCR-2, AGV-1) yielded analytical uncertainties (2σ) of <5% for major elements and <10% for trace and rare earth elements (Liu et al., 2009).

2. Zircon U–Pb dating

Zircon U–Pb dating was performed simultaneously with trace element measurements by LA-ICP-MS in the CAS Key Laboratory of Crust-Mantle Materials and Environments at the University of Science and Technology of China (USTC), Hefei. Detailed operating conditions for the LA-ICP-MS and data processing procedures are the same as those described by Liu et al. (2008, 2010a, 2010b). Laser ablation was performed using a GeoLas 2005 system, which was coupled to an Agilent 7500a ICP-MS. Helium was used as the carrier gas and argon was mixed via a T-connector before entering the ICP-MS plasma source. Nitrogen was added into the central gas flow (Ar+He) of the Ar plasma in order to improve the detection limits and precision (Hu et al., 2008). Each U–Pb analysis incorporated a background measurement of ~20–30s (gas blank) followed by 50s of data acquisition. An Agilent Chemstation was utilized for the acquisition of each analysis. Offline selection and integration of background and analyte signals, time-drift correction, and quantitative calibration of trace element analyses and U–Pb dates were performed using the in-house software ICPMSDataCal (Liu et al., 2008, 2010a). Standards 91500, BCR-2G, and BIR-1G were added on the same mount and run in parallel to the unknowns. Zircon 91500 was used as the external standard for U–Pb dating, and was analyzed twice every five analyses. Time-dependent drift of U–Th–Pb isotopic ratios was corrected using a linear interpolation with time for every five analyses according to the variations measured for

91500 (i.e., two 91500 analyses + five sample analyses + two 91500 analyses) (Liu et al., 2010a). Preferred U-Th-Pb isotopic ratios used for 91500 were taken from Wiedenbeck et al. (1995). Common Pb correction of the samples was calculated using ComPbCorr#3.17 (Andersen, 2002). Uncertainties in the values for the external standard 91500 were propagated through the calculations. Concordia diagrams and weighted mean calculations were made using Isoplot/Ex_ver3 (Ludwig, 2003). Trace element compositions of zircons were calibrated against reference materials (BCR-2G and BIR-1G), combined with internal standardization (Liu et al., 2010a). The preferred values of element concentrations for the USGS reference glasses were taken from the GeoReM database (<http://georem.mpch-mainz.gwdg.de/>).

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TABLE. S1. MAJOR, REE AND TRACE ELEMENT ANALYSES FOR THE SELECTED SAMPLES FROM THE STUDY AREA

Sample no.	14JH-01	14JH-02	14JH-03	14JH-04	14JH-05	14JH-06	14JH-07	14JH-08	14JH-09	14JH-10
<u>Major element (wt%)</u>										
SiO ₂	75.99	74.93	75.98	76.46	78.13	75.97	76.65	76.38	77.76	79.66
Na ₂ O	2.10	2.24	2.29	2.19	2.37	2.45	2.43	2.69	3.41	2.05
MgO	1.21	1.25	1.15	1.04	1.00	1.09	1.23	1.05	0.16	0.86
Al ₂ O ₃	11.57	11.77	10.68	11.24	10.44	11.10	11.20	11.12	10.86	9.26
P ₂ O ₅	0.11	0.09	0.21	0.10	0.10	0.12	0.10	0.13	0.02	0.10
K ₂ O	2.43	2.43	2.11	2.26	1.88	2.20	1.89	1.95	3.23	1.63
CaO	1.09	1.11	1.37	1.04	1.21	1.05	1.60	1.36	1.10	0.78
TiO ₂	0.48	0.46	0.44	0.44	0.41	0.44	0.47	0.43	0.15	0.34
MnO	0.07	0.07	0.06	0.05	0.06	0.06	0.09	0.04	0.05	0.06
TFe ₂ O ₃	3.48	3.55	3.17	2.98	2.80	3.21	3.19	2.93	2.10	2.65
LOI	1.78	1.80	2.27	2.05	1.76	2.27	1.31	1.79	1.07	2.53
<u>Trace element (ppm)</u>										
Li	36.5	41.7	29.9	36.9	28.7	41.1	34.2	21.2	14.6	29.8
Be	1.84	2.07	1.23	2.95	2.88	1.46	1.95	1.78	1.52	1.28
Sc	14.31	13.86	8.91	11.43	8.856	13.32	11.97	9.36	7.56	8.379
V	106	104	78.4	87.3	73.8	94.1	90.9	77.7	3.51	71.4
Cr	60.8	53.3	45.6	55.1	47.8	51.5	64.7	62.6	4.08	39.3
Co	13.1	13.3	9.28	9.22	9.68	9.95	10.7	10.9	0.709	7.68
Ni	29.1	29.1	20.8	19.3	19.9	23.1	26.9	30.7	1.88	18.2
Cu	28.1	23.0	13.8	9.9	11.6	16.9	19.8	17.0	3.5	10.6
Zn	108	135	89.3	123	85.7	117	106	76.5	72.7	90.1
Ga	20.4	21.3	15.8	18.8	15.8	19.3	18.5	16.9	15.7	16.6
Ge	1.42	1.4	1.3	1.27	1.03	1.24	1.33	1.08	0.879	0.998
As	0.887	0.395	-0.131	0.163	0.0871	-0.0568	-0.168	0.129	0.771	1.1
Rb	115	118	93.2	109	82.9	113	102	83.1	108	78.6
Sr	234	218	202	228	211	221	260	271	141	207
Y	29.1	29	28	27.5	25.4	33.2	26.4	25.4	36.9	22.7
Zr	215	209	180	214	188	205	200	203	258	194
Nb	12.1	12.5	9.92	12	10.6	12.4	11.8	10.9	6.65	10.3
Cs	5.02	5.99	5.58	6.06	4.63	7.25	6.22	3.52	1.63	2.28
Ba	467	478	385	470	346	510	401	361	528	398
La	33.1	33.6	26.1	26	28.4	32.6	27.7	29.5	26.3	27.4
Ce	66.3	70.4	53.5	55.3	58	66.7	57.4	60.4	56.6	56.3
Pr	7.47	7.51	6.07	6	6.6	7.69	6.26	6.8	6.33	6.46
Nd	27.5	29.2	22.7	22	24.2	28.6	23.3	25.7	24.4	23.5
Sm	5.45	5.46	4.78	4.38	4.74	5.97	4.65	4.89	5.26	4.69
Eu	1.10	1.06	0.97	0.92	1.04	1.19	1.02	1.07	0.87	0.80
Gd	5.25	5.61	4.47	4.26	4.45	5.66	4.48	4.61	5.72	4.06
Tb	0.838	0.849	0.765	0.733	0.741	0.952	0.727	0.747	0.976	0.666
Dy	4.71	4.49	4.43	4.22	4.14	5.15	4.07	4.17	5.76	3.64
Ho	0.985	0.943	0.952	0.884	0.836	1.09	0.841	0.817	1.26	0.815
Er	2.97	2.8	2.8	2.74	2.59	3.17	2.65	2.5	3.89	2.45
Tm	0.441	0.417	0.406	0.402	0.382	0.471	0.392	0.391	0.585	0.369
Yb	3.02	2.73	2.57	2.86	2.51	2.87	2.58	2.53	4.01	2.61
Lu	0.475	0.425	0.388	0.43	0.381	0.439	0.4	0.366	0.621	0.407
Hf	5.45	5.21	4.43	5.46	4.7	5.2	4.98	5.15	6.63	4.95
Ta	0.75	0.90	0.62	0.86	0.68	0.78	0.77	0.74	0.57	0.71
W	1.95	2.48	1.64	5.38	1.59	1.81	1.32	2.22	6.09	1.48
Re	0.00389	-0.000307	0.000662	0.00387	0.000237	0.00165	0.0000192	0.00229	0.00198	0.0019
Tl	0.635	0.682	0.476	0.577	0.457	0.656	0.563	0.426	0.668	0.41
Pb	21.4	21.7	18.1	20.8	20.8	25	23.4	23.2	14.9	17.9
Th	11.4	12.1	9.2	10.7	9.69	11.2	9.28	9.98	10.3	9.92
U	2.63	2.74	2.38	2.79	2.88	2.97	2.63	2.71	2.64	1.67
(La/Yb)N	7.87	8.83	7.29	6.52	8.12	8.15	7.70	8.37	4.71	7.53
Eu/Eu*	0.62	0.58	0.63	0.65	0.68	0.62	0.68	0.68	0.48	0.55

TABLE S2. U-PB ISOTOPIC DATA FOR ZIRCONS FROM SELECTED SAMPLES IN THE STUDY AREA

Analysis	Isotopic ratios															Age (Ma)						Disc. %
	Th	U	Th/U	²⁰⁷ Pb/ ²⁰⁶ Pb	1σ	²⁰⁷ Pb/ ²³⁵ U	1σ	²⁰⁶ Pb/ ²³⁸ U	1σ	²⁰⁷ Pb/ ²⁰⁶ Pb	1σ	²⁰⁷ Pb/ ²³⁵ U	1σ	²⁰⁶ Pb/ ²³⁸ U	1σ							
JH-01 01	91.1	85.28	1.068246	0.05104	0.00757	0.29255	0.04195	0.04158	0.00173	243	310	261	33	263	11	99						
JH-01 02	144.23	396.93	0.363364	0.05697	0.00258	0.62909	0.02722	0.08009	0.00139	490	97	496	17	497	8	100						
JH-01 03	741.62	1055.95	0.702325	0.05341	0.00351	0.30111	0.01888	0.04089	0.00093	346	142	267	15	258	6	103						
JH-01 04	165.45	344.26	0.480596	0.05271	0.00503	0.34907	0.03188	0.04803	0.00151	316	203	304	24	302	9	101						
JH-01 05	266.2	514.58	0.517315	0.05731	0.00273	0.6315	0.02874	0.07992	0.00145	503	102	497	18	496	9	100						
JH-01 06	501.67	553.8	0.905869	0.05078	0.00214	0.29098	0.01175	0.04156	0.00062	231	94	259	9	263	4	99						
JH-01 07	690.24	1121.79	0.615302	0.05222	0.00216	0.29471	0.01163	0.04093	0.00064	295	92	262	9	259	4	101						
JH-01 08	358.37	471.53	0.760015	0.05148	0.00054	0.29453	0.02958	0.04149	0.00139	263	224	262	23	262	9	100						
JH-01 09	677.56	991.91	0.683086	0.05744	0.00133	0.63193	0.01395	0.07979	0.00092	508	51	497	9	495	5	100						
JH-01 10	766.92	795.44	0.964146	0.07174	0.00229	0.43219	0.013	0.04369	0.00063	979	64	365	9	276	4	132						
JH-01 11	284.8	595.08	0.478591	0.05473	0.00559	0.30377	0.02958	0.04025	0.00136	401	214	269	23	254	8	106						
JH-01 12	310.45	957.87	0.324105	0.05225	0.00473	0.29328	0.02533	0.04071	0.00122	296	194	261	20	257	8	102						
JH-01 13	209.3	307.8	0.679987	0.0536	0.00604	0.3001	0.03237	0.0406	0.00146	354	236	267	25	257	9	104						
JH-01 14	322.46	437.96	0.736277	0.05622	0.00298	0.62426	0.03169	0.08052	0.00157	460	114	493	20	499	9	99						
JH-01 15	377.14	550.18	0.685485	0.05138	0.00421	0.2971	0.02332	0.04193	0.00111	258	178	264	18	265	7	100						
JH-01 16	235.69	328.55	0.717364	0.0522	0.00403	0.30336	0.02251	0.04214	0.00103	294	167	269	18	266	6	101						
JH-01 17	299.74	700.27	0.428035	0.05112	0.0018	0.29422	0.00993	0.04173	0.00057	246	79	262	8	264	4	99						
JH-01 18	62.83	115.22	0.545305	0.05138	0.00736	0.29944	0.04122	0.04225	0.00184	258	300	266	32	267	11	100						
JH-01 19	27.95	69.45	0.402448	0.05195	0.00876	0.30424	0.04973	0.04246	0.00192	283	346	270	39	268	12	101						
JH-01 20	1763.42	1707.1	1.032992	0.05456	0.00178	0.30161	0.00936	0.04008	0.00054	394	71	268	7	253	3	106						
JH-01 21	75.3	217.67	0.345937	0.06976	0.00268	1.49814	0.05492	0.1557	0.00265	921	77	930	22	933	15	100						
JH-01 22	123.49	173.3	0.712579	0.05176	0.00539	0.34555	0.03465	0.0484	0.00155	275	222	301	26	305	10	99						
JH-01 23	165.07	223.49	0.738601	0.05274	0.00508	0.29405	0.02712	0.04042	0.00124	317	205	262	21	256	8	102						
JH-01 24	432.48	1372.11	0.315193	0.05628	0.00195	0.60082	0.01989	0.07739	0.00111	463	75	478	13	481	7	99						
JH-01 25	209.24	457.19	0.457665	0.05308	0.0022	0.34218	0.01362	0.04674	0.00071	332	91	299	10	294	4	101						
JH-01 26	350.29	456.61	0.767154	0.05139	0.00384	0.28996	0.0208	0.0409	0.00099	258	163	259	16	258	6	100						
JH-01 27	423.62	666.68	0.635417	0.05272	0.00176	0.34895	0.01115	0.04798	0.00064	317	74	304	8	302	4	101						
JH-01 28	339.87	292.61	1.161512	0.05353	0.00392	0.31021	0.02175	0.04201	0.00101	351	157	274	17	265	6	103						
JH-03 01	353.76	401.13	0.881909	0.05088	0.00137	0.29761	0.00773	0.04242	0.00049	235	61	265	6	268	3	99						
JH-03 02	150.51	259.32	0.580403	0.05042	0.00299	0.29374	0.01671	0.04225	0.00084	214	132	262	13	267	5	98						
JH-03 03	155.66	301.9	0.515601	0.05292	0.00288	0.29963	0.01561	0.04107	0.00078	325	119	266	12	259	5	103						
JH-03 04	250.73	510.29	0.491348	0.05191	0.00174	0.30393	0.00973	0.04247	0.00057	281	75	270	8	268	4	101						
JH-03 05	166.72	282.91	0.589304	0.05168	0.00219	0.30048	0.01223	0.04217	0.00064	271	94	267	10	266	4	100						
JH-03 06	229.04	408.46	0.56074	0.05204	0.00272	0.29136	0.01459	0.04061	0.00075	287	115	260	11	257	5	101						
JH-03 07	69.16	110.61	0.62526	0.05895	0.00221	0.5396	0.01942	0.06639	0.00095	565	80	438	13	414	6	106						
JH-03 08	103.74	376.52	0.275523	0.07144	0.00077	1.57602	0.01589	0.16	0.00153	970	22	961	6	957	9	100						
JH-03 09	345.91	476.49	0.725954	0.05152	0.00281	0.28311	0.01478	0.03986	0.00076	264	121	253	12	252	5	100						
JH-03 10	450.5	971.32	0.463802	0.05133	0.00164	0.28254	0.00861	0.03992	0.00053	256	72	253	7	252	3	100						
JH-03 11	197.32	363.08	0.543461	0.0522	0.00245	0.29379	0.01319	0.04082	0.00069	294	104	262	10	258	4	101						
JH-03 12	218.2	220.79	0.988269	0.05129	0.00439	0.29477	0.02422	0.04168	0.00114	254	186	262	19	263	7	100						
JH-03 13	88.55	114.27	0.774919	0.05196	0.00271	0.29867	0.01515	0.04169	0.00066	284	115	265	12	263	4	101						
JH-03 14	273.36	360.01	0.759312	0.05248	0.00158	0.29993	0.00867	0.04145	0.00052	306	67	266	7	262	3	102						
JH-03 15	185.97	333.06	0.558368	0.05797	0.00121	0.67955	0.01345	0.08503	0.00095	528	45	527	8	526	6	100						
JH-03 16	152.12	130.28	1.167639	0.05871	0.00241	0.6917	0.02723	0.08545	0.00136	557	87	534	16	529	8	101						
JH-03 17	520.58	268.84	1.936393	0.05136	0.00168	0.28889	0.00912	0.04079	0.00051	257	74	258	7	258	3	100						
JH-03 18	60.44	150.29	0.402156	0.05464	0.0023	0.49574	0.02012	0.06581	0.001	398	91	409	14	411	6	100						
JH-03 19	197.92	606.17	0.326509	0.05352	0.00091	0.30579	0.00498	0.04144	0.00042	351	38	271	4	262	3	103						
JH-03 20	171.68	294.35	0.583251	0.0519	0.00167	0.29572	0.0091	0.04133	0.00054	281	72	263	7	261	3	101						
JH-03 21	64.08	114.85	0.557945	0.05361	0.00297	0.30725	0.01634	0.04157	0.00076	355	120	272	13	263	5	104						
JH-03 22	79.85	134.07	0.595584	0.0504	0.00224	0.29413	0.01266	0.04233	0.00061	213	100	262	10	267	4	98						
JH-03 23	70.6	361.97	0.195044	0.05343	0.00196	0.30351	0.01063	0.0412	0.00059	347	81	269	8	260	4	103						
JH-03 24	109.83	129.94	0.845236	0.05281	0.00284	0.30455	0.01579	0.04183	0.00074	321	118	270	12	264	5	102						
JH-03 25	731.24	652.38	1.12088	0.05674	0.00196	0.31475	0.01035	0.04023	0.00057	481	75	278	8	254	4	109						
JH-03 26	469.54	744.62	0.630577	0.05196	0.00235	0.30504	0.01319	0.04258	0.00071	283	100	270	10	269	4	101						
JH-03 27	95.14	376.48	0.252709	0.05284	0.00311	0.30169	0.01693	0.04141	0.00085	322	128	268	13	262	5	102						
JH-03 28	162.84	122.84	1.325627	0.05515	0.00208	0.53267	0.01924	0.07005	0.00102	418	82	434	13	437	6	99						
JH-03 29	53.77	76.69	0.701134	0.04894	0.00689	0.																

JH-05 25	420.21	549.39	0.764866	0.05159	0.00099	0.30043	0.00548	0.04223	0.00045	267	43	267	4	267	3	100
JH-05 26	16.58	39.89	0.415643	0.05193	0.00779	0.34671	0.05018	0.04842	0.00208	283	311	302	38	305	13	99
JH-05 27	35.73	80.31	0.444901	0.05277	0.00407	0.29995	0.02226	0.04123	0.001	319	166	266	17	260	6	102
JH-05 28	58.28	164.03	0.355301	0.05276	0.00231	0.30209	0.01271	0.04153	0.00064	318	96	268	10	262	4	102
JH-07 01	81.17	313.24	0.25913	0.07054	0.00119	1.52547	0.02433	0.15688	0.00169	944	34	941	10	939	9	100
JH-07 02	728.81	1456.29	0.500457	0.05246	0.00119	0.29511	0.00635	0.04081	0.00046	306	51	263	5	258	3	102
JH-07 03	354.86	220.58	1.608759	0.05094	0.00327	0.28133	0.01728	0.04006	0.00086	238	141	252	14	253	5	99
JH-07 04	105.72	156.39	0.676002	0.05655	0.00177	0.55386	0.01654	0.07105	0.00094	473	68	448	11	443	6	101
JH-07 05	276.75	1286.74	0.215078	0.05643	0.00072	0.54082	0.00649	0.06953	0.00066	468	28	439	4	433	4	101
JH-07 06	157.2	202.41	0.776641	0.05313	0.00352	0.36613	0.02324	0.04999	0.00112	334	143	317	17	314	7	101
JH-07 07	172.89	336.68	0.513514	0.06931	0.00085	1.44986	0.01679	0.15175	0.00148	908	25	910	7	911	8	100
JH-07 08	44.81	78.32	0.57214	0.05797	0.00447	0.67037	0.04952	0.08389	0.00227	528	161	521	30	519	14	100
JH-07 09	1661.87	1255.44	1.323735	0.0514	0.00127	0.28226	0.00663	0.03984	0.00046	259	56	252	5	252	3	100
JH-07 10	146.01	321.77	0.453771	0.05265	0.00239	0.28849	0.01254	0.03975	0.00066	314	100	257	10	251	4	102
JH-07 11	1077.28	1602.64	0.672191	0.0523	0.00058	0.2875	0.00302	0.03987	0.00037	299	25	257	2	252	2	102
JH-07 12	388.47	431.19	0.900925	0.05183	0.00106	0.28309	0.00552	0.03962	0.00042	278	46	253	4	251	3	101
JH-07 13	98.72	136.35	0.724019	0.05687	0.00202	0.54235	0.01847	0.06917	0.00098	486	77	440	12	431	6	102
JH-07 14	91.37	118.54	0.770795	0.05216	0.00207	0.33623	0.01286	0.04676	0.00065	292	88	294	10	295	4	100
JH-07 15	244.42	648.98	0.376622	0.05602	0.00239	0.31149	0.01266	0.04033	0.00066	453	93	275	10	255	4	108
JH-07 16	196.21	289.82	0.677006	0.05027	0.00141	0.28183	0.00759	0.04067	0.00049	207	64	252	6	257	3	98
JH-07 17	62.86	278.79	0.225474	0.05456	0.00125	0.36727	0.00805	0.04883	0.00055	394	50	318	6	307	3	103
JH-07 18	251.26	713.24	0.35228	0.05101	0.00168	0.27856	0.00873	0.03961	0.00053	241	74	250	7	250	3	100
JH-07 19	71.82	115.3	0.622897	0.05335	0.00656	0.31018	0.03652	0.04217	0.00165	344	257	274	28	266	10	103
JH-07 20	571.87	1038.29	0.550781	0.0521	0.00062	0.33514	0.00373	0.04666	0.00043	290	27	294	3	294	3	100
JH-07 21	220.58	481.74	0.457882	0.05282	0.00279	0.31006	0.01565	0.04258	0.0008	321	116	274	12	269	5	102
JH-07 22	474.06	280.58	1.689572	0.05194	0.00251	0.29147	0.01345	0.0407	0.00071	283	107	260	11	257	4	101
JH-07 23	65.32	140.24	0.465773	0.0512	0.00252	0.27667	0.01318	0.0392	0.00062	250	110	248	10	248	4	100
JH-07 24	61.01	165.22	0.369265	0.05058	0.00189	0.27957	0.01008	0.04009	0.00054	222	84	250	8	253	3	99
JH-07 25	254.37	747.88	0.340121	0.05158	0.00079	0.27983	0.00404	0.03935	0.00038	267	35	251	3	249	2	101
JH-07 26	154.54	245.44	0.629645	0.05637	0.00125	0.61361	0.01298	0.07895	0.00088	466	49	486	8	490	5	99
JH-07 27	129.31	158.12	0.817797	0.04998	0.00199	0.29453	0.01133	0.04274	0.00058	194	90	262	9	270	4	97
JH-07 28	20.3	44.7	0.454139	0.05229	0.00604	0.34693	0.03913	0.04812	0.00136	298	243	302	30	303	8	100

Errors are 1-sigma and Pb* indicates the corrected radiogenic portions. Data were ²⁰⁴Pb corrected, using measured values.

% Disc = % discordance defined as $[(^{206}\text{Pb}/^{238}\text{Pb age}) / (^{207}\text{Pb}/^{235}\text{U age})] \times 100$ (shadow area show the data with the discordance over 10%).