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Data Repository

TABLE DR1. LASER-ABLATION-INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY (LA-ICP-MS) U-Pb DATA FOR METASUPRACRUSTAL ROCKS IN THE NORTH WULAN TERRANE.

TABLE DR2. LA-ICP-MS ZIRCON Lu-Hf ISOTOPIC DATA FOR METASUPRACRUSTAL ROCKS IN THE NORTH WULAN TERRANE.

TABLE DR3. ANALYTICAL RESULTS OF MAJOR ELEMENTS (wt. %) AND TRACE ELEMENTS (ppm) OF METASEDIMENTARY ROCKS FROM THE NORTH WULAN TERRANE.

60	0.282175	0.000028	0.000717	0.000018	0.017148	0.000474	1286	0.28216	6.8	1508	1642	-0.98
63	0.282243	0.000019	0.002012	0.000024	0.044818	0.000594	1079	0.28220	3.7	1463	1674	-0.98
64	0.282203	0.000016	0.001402	0.000084	0.034408	0.002223	1104	0.28217	3.3	1496	1722	-0.94
66	0.282025	0.000020	0.000670	0.000009	0.016889	0.000289	1356	0.28201	3.1	1713	1929	-0.96
67	0.282029	0.000016	0.000984	0.000013	0.024515	0.000321	1436	0.28200	4.7	1722	1891	-0.98
71	0.282167	0.000023	0.001210	0.000026	0.032202	0.000564	1026	0.28214	0.5	1538	1837	-0.97
74	0.281862	0.000017	0.000711	0.000009	0.017326	0.000284	1161	0.28185	-7.1	1940	2410	-0.96
75	0.282218	0.000016	0.002206	0.000016	0.055761	0.000431	1283	0.28216	7.0	1507	1629	-0.98
76	0.282151	0.000012	0.001002	0.000010	0.024092	0.000349	1126	0.28213	2.2	1553	1805	-0.93

[†]Spot numbers are the same as those of the zircon grains for U–Pb analysis in Table A1.

La	42.7	45.8	48.6	44.0	48.2	44.0	41.3	38.6	41.0	32.6	48.4	52.8	26.8	28.4	71.7	37.0	44.6	31.8	43.8	81.3	32.4
Ce	90.6	93.6	96.8	90.6	101	89.6	79.2	77.9	101	73.1	86.6	106	57.2	62.6	157	80.9	93.3	67.5	79.8	146	60.5
Pr	9.76	10.8	11.9	10.5	11.8	10.8	9.33	8.64	9.38	9.49	9.32	12.2	6.95	7.48	16.7	9.77	11.3	8.60	9.13	15.5	6.70
Nd	36.3	40.3	45.0	40.2	46.2	40.5	35.7	33.3	34.5	39.4	32.6	44.6	25.9	27.8	69.9	36.2	43.7	35.5	34.6	53.1	25.1
Sm	7.05	7.84	8.15	8.12	9.54	7.33	6.63	5.72	6.34	8.06	4.66	7.68	5.47	6.17	13.8	7.23	8.96	7.92	6.24	6.85	4.60
Eu	1.18	1.70	1.75	2.03	1.02	1.19	1.65	0.84	1.02	2.26	2.15	1.39	0.77	0.63	1.25	0.74	1.88	1.30	1.63	1.91	1.83
Gd	5.87	6.62	7.06	6.53	8.12	6.36	6.18	4.36	4.96	7.21	3.94	6.44	4.67	5.88	12.3	6.28	8.42	7.53	6.66	5.69	5.65
Tb	0.96	1.10	1.07	1.08	1.40	0.99	0.90	0.59	0.77	1.07	0.46	0.90	0.68	1.09	2.00	1.01	1.30	1.30	1.03	0.53	1.11
Dy	5.79	6.43	6.11	6.71	9.32	6.25	5.10	3.03	4.77	5.66	2.26	4.78	3.28	6.57	11.7	5.90	7.91	8.17	5.86	2.16	7.73
Ho	1.15	1.30	1.25	1.36	2.08	1.39	0.99	0.54	0.95	1.04	0.45	0.93	0.52	1.23	2.32	1.17	1.56	1.63	1.12	0.39	1.66
Er	3.47	3.72	3.70	3.93	6.71	4.38	2.86	1.26	2.91	2.73	1.44	2.71	1.26	3.40	6.73	3.43	4.57	4.80	3.22	1.22	4.90
Tm	0.52	0.57	0.60	0.60	1.03	0.75	0.45	0.16	0.46	0.39	0.25	0.43	0.18	0.54	1.05	0.56	0.70	0.78	0.52	0.17	0.81
Yb	3.37	3.86	3.79	4.07	6.77	4.95	2.86	1.08	3.06	2.28	1.77	2.79	1.08	3.27	6.35	3.52	4.65	4.86	3.38	1.15	5.15
Lu	0.52	0.58	0.57	0.60	1.01	0.74	0.44	0.18	0.48	0.33	0.31	0.42	0.15	0.46	0.91	0.51	0.69	0.71	0.53	0.18	0.78
Hf	4.91	5.62	5.96	5.07	6.73	6.04	5.23	11.3	4.18	7.61	7.85	7.27	2.72	3.06	6.93	3.51	12.3	5.35	7.07	8.10	10.6
Ta	1.55	1.20	0.93	1.28	1.35	1.36	1.49	0.59	1.00	0.59	0.32	0.34	0.39	0.84	0.87	0.38	1.32	0.86	0.58	0.60	0.93
Pb	18.7	18.6	19.9	22.9	7.86	11.4	15.6	1.75	54.4	17.0	70.8	43.1	43.9	33.1	35.2	35.1	25.8	8.20	12.3	30.8	33.1
Th	15.9	14.8	14.6	12.9	14.8	14.6	13.8	15.1	15.2	1.26	3.89	15.6	14.7	15.7	37.9	20.0	14.1	10.7	4.09	38.6	9.27
U	2.48	2.26	2.04	2.91	2.92	1.81	2.50	1.83	1.36	0.56	1.18	2.10	3.87	5.99	5.85	3.88	3.05	1.02	0.46	2.23	1.32
Σ REE	209	224	236	220	254	219	194	176	212	186	195	244	135	156	374	194	234	182	197	316	159
(La/Yb) _N ^{**}	9.08	8.53	9.20	7.75	5.11	6.38	10.4	25.6	9.60	10.3	19.6	13.6	17.8	6.23	8.10	7.54	6.89	4.69	9.30	50.48	4.52
(Gd/Yb) _N	1.44	1.42	1.54	1.33	0.99	1.06	1.79	3.34	1.34	2.62	1.84	1.91	3.58	1.49	1.60	1.48	1.50	1.28	1.63	4.08	0.91
Eu/Eu* ^{††}	0.54	0.70	0.69	0.82	0.34	0.52	0.78	0.49	0.54	0.89	1.49	0.59	0.45	0.32	0.29	0.33	0.65	0.51	0.77	0.91	1.10

[§]ICV = ($\text{Fe}_2\text{O}_3 + \text{K}_2\text{O} + \text{Na}_2\text{O} + \text{CaO} + \text{MgO} + \text{TiO}_2$)/ Al_2O_3 (Cox et al., 1995).

^{##}CIA = [$\text{Al}_2\text{O}_3 / (\text{Al}_2\text{O}_3 + \text{CaO}^* + \text{Na}_2\text{O} + \text{K}_2\text{O})$] × 100 (Nesbitt and Young, 1982); CaO* is the CaO in the silicate fraction only.

^{**}N refers to chondrite-normalized values. REE chondrite-normalization factors are sourced from Sun and McDonough, (1989).

^{††}Eu/Eu* = (Eu)_N/[(Gd)_N + (Sm)_N]/2.

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