

Provenance and tectonic setting of the Upper Palaeozoic sandstones in western Inner Mongolia (the Shalazhashan and Solonker belts), China: insights from detrital zircon U–Pb ages and Hf isotopes

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Table S3. Hf composition and TDM age

	Analyzed No.	Age (Ma)	$^{176}\text{Hf}/^{177}\text{Hf}$	1σ	$^{176}\text{Lu}/^{177}\text{Hf}$	1σ	$^{176}\text{Yb}/^{177}\text{Hf}$	1σ	$\epsilon\text{Hf}(0)$	1σ	$\epsilon\text{Hf}(t)$	1σ	T_{DM}	fLu/Hf
1	S7-01	259	0.282753	0.000015	0.001534	0.000040	0.036591	0.000853	-0.7	0.7	4.8	0.7	889	-0.95
2	S7-03	295	0.282582	0.000015	0.002029	0.000076	0.057927	0.002567	-6.7	0.7	-0.6	0.8	1218	-0.94
3	S7-06	457	0.282587	0.000013	0.001101	0.000008	0.023983	0.000145	-6.5	0.7	3.2	0.7	1133	-0.97
4	S7-07	284	0.282780	0.000013	0.001522	0.000048	0.036533	0.001146	0.3	0.7	6.2	0.7	826	-0.95
5	S7-15	324	0.282579	0.000040	0.000935	0.000011	0.024252	0.000439	-6.8	1.5	0.1	1.5	1200	-0.97
6	S7-19	310	0.282771	0.000016	0.001577	0.000014	0.033639	0.000348	0.0	0.8	6.5	0.8	835	-0.95
7	S7-20	280	0.282551	0.000016	0.002672	0.000106	0.071866	0.002919	-7.8	0.8	-2.2	0.8	1290	-0.92
8	S7-31	422	0.281815	0.000017	0.001074	0.000044	0.024263	0.001081	-33.9	0.8	-24.9	0.8	2648	-0.97
9	S7-32	315	0.282502	0.000014	0.001352	0.000039	0.032609	0.001021	-9.5	0.7	-2.9	0.7	1359	-0.96
10	S7-33	453	0.282272	0.000018	0.000921	0.000022	0.023268	0.000572	-17.7	0.8	-8.0	0.8	1749	-0.97
11	S7-41	309	0.282652	0.000014	0.001657	0.000018	0.040211	0.000466	-4.2	0.7	2.2	0.7	1070	-0.95
12	S7-47	280	0.282515	0.000017	0.001073	0.000030	0.027046	0.000902	-9.1	0.8	-3.1	0.8	1345	-0.97
13	S7-48	294	0.282503	0.000015	0.001435	0.000013	0.034764	0.000481	-9.5	0.7	-3.3	0.8	1366	-0.96
14	S7-50	422	0.282759	0.000035	0.001394	0.000055	0.038305	0.001345	-0.4	1.3	8.5	1.4	813	-0.96
15	S7-51	304	0.282512	0.000014	0.001108	0.000013	0.027203	0.000364	-9.2	0.7	-2.7	0.7	1342	-0.97
16	S7-56	321	0.282771	0.000016	0.001575	0.000041	0.037569	0.000972	0.0	0.8	6.7	0.8	831	-0.95
17	S7-57	498	0.282437	0.000019	0.000026	0.000001	0.000951	0.000032	-11.8	0.8	-0.9	0.9	1392	-1.00
18	S7-67	448	0.282651	0.000013	0.000641	0.000009	0.015787	0.000236	-4.3	0.7	5.4	0.7	1004	-0.98
19	S7-68	439	0.282612	0.000027	0.001495	0.000057	0.038483	0.001447	-5.7	1.1	3.6	1.1	1098	-0.95
20	S7-69	292	0.282541	0.000016	0.001623	0.000064	0.044736	0.001792	-8.2	0.8	-2.1	0.8	1295	-0.95
21	WLJ-29-1-02	315	0.282619	0.000019	0.001576	0.000017	0.039888	0.000414	-5.4	0.8	1.2	0.9	1131	-0.95
22	WLJ-29-1-03	490	0.282436	0.000016	0.000278	0.000002	0.006528	0.000073	-11.9	0.8	-1.2	0.8	1402	-0.99
23	WLJ-29-1-07	468	0.282355	0.000013	0.000277	0.000008	0.007750	0.000215	-14.7	0.7	-4.5	0.7	1569	-0.99
24	WLJ-29-1-09	275	0.282693	0.000013	0.001521	0.000033	0.032865	0.000739	-2.8	0.7	3.0	0.7	1000	-0.95
25	WLJ-29-1-16	295	0.282654	0.000011	0.000643	0.000010	0.016522	0.000190	-4.2	0.6	2.2	0.7	1060	-0.98
26	WLJ-29-1-17	292	0.282703	0.000011	0.001671	0.000021	0.033996	0.000411	-2.4	0.6	3.7	0.7	976	-0.95
27	WLJ-29-1-19	299	0.282667	0.000015	0.001518	0.000026	0.041529	0.000770	-3.7	0.7	2.6	0.8	1043	-0.95
28	WLJ-29-1-23	278	0.282575	0.000012	0.000674	0.000009	0.014721	0.000209	-7.0	0.7	-1.0	0.7	1222	-0.98

29	WLJ-29-1-25	271	0.282922	0.000015	0.001146	0.000031	0.027569	0.000730	5.3	0.7	11.1	0.7	547	-0.97
30	WLJ-29-1-26	290	0.282627	0.000012	0.000977	0.000023	0.021444	0.000568	-5.1	0.7	1.1	0.7	1120	-0.97
31	WLJ-29-1-27	449	0.282420	0.000015	0.000561	0.000010	0.014794	0.000292	-12.4	0.7	-2.7	0.8	1455	-0.98
32	WLJ-29-1-28	420	0.282515	0.000014	0.000816	0.000020	0.021496	0.000556	-9.1	0.7	-0.1	0.7	1285	-0.98
33	WLJ-29-1-33	289	0.282689	0.000013	0.001390	0.000022	0.032222	0.000624	-2.9	0.7	3.2	0.7	1002	-0.96
34	WLJ-29-1-34	270	0.282590	0.000012	0.001064	0.000017	0.023447	0.000488	-6.4	0.7	-0.7	0.7	1201	-0.97
35	WLJ-29-1-39	448	0.282332	0.000011	0.001228	0.000016	0.031711	0.000469	-15.5	0.6	-6.1	0.7	1638	-0.96
36	WLJ-29-1-40	283	0.282561	0.000018	0.000955	0.000015	0.021916	0.000289	-7.5	0.8	-1.4	0.8	1252	-0.97
37	WLJ-29-1-41	301	0.282626	0.000011	0.001109	0.000014	0.028252	0.000435	-5.2	0.6	1.2	0.7	1118	-0.97
38	WLJ-29-1-42	433	0.282541	0.000013	0.000582	0.000013	0.014568	0.000337	-8.2	0.7	1.2	0.7	1226	-0.98
39	WLJ-29-1-45	445	0.282362	0.000013	0.001185	0.000037	0.031570	0.001205	-14.5	0.7	-5.1	0.7	1581	-0.96
40	WLJ-29-1-47	417	0.282269	0.000014	0.000623	0.000007	0.016658	0.000266	-17.8	0.7	-8.8	0.7	1764	-0.98
41	WLJ-29-1-49	451	0.282308	0.000014	0.000732	0.000024	0.018014	0.000577	-16.4	0.7	-6.7	0.7	1677	-0.98
42	WLJ-29-1-51	421	0.282358	0.000012	0.000349	0.000027	0.010419	0.000864	-14.6	0.7	-5.5	0.7	1584	-0.99
43	WLJ-29-1-55	296	0.282658	0.000017	0.001722	0.000046	0.042270	0.001086	-4.0	0.8	2.1	0.8	1064	-0.95
44	WLJ-29-1-57	382	0.282657	0.000014	0.001443	0.000044	0.037455	0.001167	-4.1	0.7	4.0	0.7	1030	-0.96
45	WLJ-29-1-59	298	0.282672	0.000016	0.001405	0.000020	0.037548	0.000645	-3.5	0.8	2.7	0.8	1033	-0.96
46	WLJ-29-1-67	275	0.282710	0.000015	0.001967	0.000012	0.042144	0.000384	-2.2	0.7	3.5	0.8	972	-0.94
47	WLJ-29-1-69	424	0.282401	0.000013	0.000868	0.000045	0.021606	0.001252	-13.1	0.7	-4.0	0.7	1508	-0.97
48	WLJ-29-1-70	435	0.282437	0.000012	0.000546	0.000003	0.012146	0.000080	-11.8	0.7	-2.4	0.7	1428	-0.98
49	S8-11	281	0.282438	0.000016	0.001653	0.000020	0.042403	0.000525	-11.8	0.8	-6.0	0.8	1501	-0.95
50	S8-16	289	0.282478	0.000011	0.000902	0.000014	0.020905	0.000366	-10.4	0.6	-4.2	0.7	1411	-0.97
51	S8-17	292	0.282544	0.000017	0.001110	0.000097	0.025765	0.002355	-8.0	0.8	-1.8	0.8	1282	-0.97
52	S8-22	287	0.282529	0.000016	0.000897	0.000024	0.020994	0.000596	-8.6	0.8	-2.5	0.8	1312	-0.97
53	S8-28	296	0.282670	0.000014	0.002112	0.000030	0.052798	0.000733	-3.6	0.7	2.5	0.7	1044	-0.94
54	S8-30	279	0.282548	0.000013	0.001911	0.000043	0.045164	0.000922	-7.9	0.7	-2.2	0.7	1289	-0.94
55	S8-31	288	0.282625	0.000015	0.001195	0.000011	0.030042	0.000432	-5.2	0.7	0.9	0.8	1127	-0.96
56	S8-34	299	0.282669	0.000013	0.001256	0.000019	0.031226	0.000572	-3.6	0.7	2.7	0.7	1036	-0.96
57	S8-48	285	0.282602	0.000011	0.000761	0.000005	0.019917	0.000098	-6.0	0.6	0.1	0.7	1169	-0.98
58	S8-51	285	0.282559	0.000013	0.001335	0.000008	0.033005	0.000185	-7.5	0.7	-1.5	0.7	1258	-0.96
59	S8-57	295	0.282666	0.000019	0.001304	0.000025	0.031920	0.000555	-3.8	0.8	2.5	0.9	1045	-0.96
60	S8-63	286	0.282109	0.000014	0.000969	0.000010	0.023984	0.000290	-23.4	0.7	-17.3	0.7	2131	-0.97
61	S8-64	281	0.282504	0.000018	0.000951	0.000016	0.022536	0.000459	-9.5	0.8	-3.5	0.8	1364	-0.97

