minerals

MDPI

Table S1. LA-ICP-MS detrital zircon U-Pb ages from the Luonan area.

Spots	Th (ppm)	U (ppm)	Th/U	$^{207}Pb/^{206}Pb$		$^{207}Pb/^{235}U$		$^{206}Pb/^{238}U$		rho	$^{207}Pb/^{206}Pb$		$^{207}Pb/^{235}U$		$^{206}Pb/^{238}U$		Con-cord-ance	Best age
				Ratio	1σ	Ratio	1σ	Ratio	1σ		Age (Ma)	1σ	Age (Ma)	1σ	Age (Ma)	1σ		
Sample YS-P1 from the Permian in the Luonan area																		
YS-P1-76	177.811	257.027	0.692	0.055	0.005	0.349	0.032	0.044	0.000	0.120	466.710	199.973	303.665	24.451	280.176	3.060	91%	280
YS-P1-45	301.737	405.272	0.745	0.049	0.006	0.314	0.039	0.045	0.000	0.082	150.085	255.520	277.374	30.237	281.470	2.824	98%	281
YS-P1-26	181.584	224.150	0.810	0.056	0.002	0.347	0.013	0.045	0.000	0.243	438.935	90.733	302.150	10.151	283.485	2.624	93%	283
YS-P1-24	336.180	507.780	0.662	0.056	0.002	0.356	0.011	0.046	0.000	0.288	477.820	102.765	309.496	7.880	287.413	2.396	92%	287
YS-P1-27	238.432	389.181	0.613	0.053	0.001	0.338	0.010	0.046	0.000	0.321	338.945	95.360	295.411	7.244	289.018	2.569	97%	289
YS-P1-14	439.771	710.265	0.619	0.047	0.001	0.297	0.010	0.046	0.000	0.270	27.875	74.065	264.313	7.566	290.308	2.496	90%	290
YS-P1-11	271.879	250.532	1.085	0.048	0.002	0.310	0.013	0.047	0.000	0.236	109.350	100.913	274.395	9.754	294.545	2.755	92%	295
YS-P1-51	206.923	294.680	0.702	0.057	0.002	0.373	0.011	0.047	0.000	0.318	505.595	62.958	321.828	7.813	295.257	2.604	91%	295
YS-P1-13	129.813	187.685	0.692	0.054	0.002	0.358	0.014	0.048	0.001	0.282	388.940	97.213	310.740	10.806	302.854	3.368	97%	303
YS-P1-23	812.986	636.956	1.276	0.051	0.005	0.362	0.034	0.049	0.001	0.113	233.400	16.665	313.644	25.127	309.851	3.182	98%	310
YS-P1-86	582.075	607.455	0.958	0.056	0.002	0.395	0.013	0.051	0.001	0.367	450.045	61.105	338.312	9.277	319.504	3.694	94%	320
YS-P1-39	400.313	308.871	1.296	0.054	0.002	0.394	0.012	0.053	0.001	0.321	375.980	78.695	337.027	9.022	332.005	3.271	98%	332
YS-P1-73	447.202	390.323	1.146	0.055	0.002	0.403	0.012	0.053	0.000	0.288	398.200	58.328	344.095	8.460	335.290	2.731	97%	335
YS-P1-32	495.162	1084.106	0.457	0.053	0.005	0.411	0.036	0.056	0.000	0.085	327.835	202.753	349.778	25.838	353.106	2.551	99%	353
YS-P1-22	337.899	825.555	0.409	0.058	0.004	0.535	0.037	0.064	0.001	0.175	522.260	141.648	434.926	24.706	399.780	4.730	91%	400
YS-P1-48	117.752	166.322	0.708	0.054	0.002	0.484	0.017	0.065	0.001	0.305	361.165	79.623	401.113	11.318	406.831	4.112	98%	407
YS-P1-28	248.257	515.796	0.481	0.047	0.010	0.549	0.108	0.066	0.001	0.087	61.205	448.095	444.256	70.515	413.141	6.820	92%	413
YS-P1-55	181.985	224.395	0.811	0.059	0.002	0.553	0.019	0.068	0.001	0.287	550.035	80.543	446.750	12.514	423.585	4.083	94%	424
YS-P1-04	354.839	357.898	0.991	0.054	0.001	0.513	0.014	0.069	0.001	0.292	361.165	61.105	420.362	9.328	430.490	3.297	97%	430
YS-P1-52	53.916	129.420	0.417	0.058	0.002	0.553	0.021	0.069	0.001	0.268	522.260	82.395	446.973	13.652	432.551	4.240	96%	433
YS-P1-36	315.092	333.495	0.945	0.056	0.002	0.541	0.016	0.070	0.001	0.296	461.155	66.660	438.914	10.467	434.044	3.650	98%	434
YS-P1-33	195.177	256.008	0.762	0.056	0.002	0.544	0.015	0.071	0.001	0.324	442.640	58.328	441.148	9.789	440.375	3.778	99%	440
YS-P1-17	85.181	203.098	0.419	0.058	0.002	0.566	0.018	0.071	0.001	0.342	516.705	65.733	455.376	11.511	440.769	4.569	96%	441
YS-P1-69	184.252	231.906	0.795	0.056	0.002	0.547	0.017	0.071	0.001	0.295	435.230	68.510	442.842	11.058	443.550	3.904	99%	444

YS-P1-63	110.847	158.864	0.698	0.059	0.002	0.582	0.018	0.072	0.001	0.302	553.740	74.988	465.859	11.801	445.755	4.115	95%	446
YS-P1-62	170.529	291.842	0.584	0.057	0.002	0.563	0.015	0.072	0.001	0.308	475.970	62.958	453.484	9.883	446.584	3.592	98%	447
YS-P1-06	93.459	275.511	0.339	0.056	0.002	0.559	0.020	0.072	0.001	0.319	453.750	81.475	450.679	12.755	450.343	4.872	99%	450
YS-P1-12	266.201	384.767	0.692	0.056	0.002	0.563	0.016	0.072	0.001	0.348	461.155	59.252	453.267	10.183	450.656	4.226	99%	451
YS-P1-74	123.243	212.197	0.581	0.059	0.002	0.590	0.018	0.073	0.001	0.306	568.550	64.805	470.911	11.277	451.252	3.998	95%	451
YS-P1-79	164.279	250.983	0.655	0.059	0.002	0.587	0.017	0.073	0.001	0.363	550.035	54.620	468.711	10.638	451.546	4.488	96%	452
YS-P1-43	166.645	164.397	1.014	0.057	0.002	0.575	0.021	0.073	0.001	0.281	487.080	81.473	460.959	13.465	454.703	4.494	98%	455
YS-P1-41	40.460	115.995	0.349	0.056	0.002	0.566	0.023	0.074	0.001	0.348	450.045	88.880	455.358	14.605	458.411	6.133	99%	458
YS-P1-07	51.917	99.272	0.523	0.053	0.002	0.549	0.026	0.074	0.001	0.229	342.650	101.843	444.143	16.777	461.896	4.768	96%	462
YS-P1-87	197.385	500.370	0.394	0.070	0.001	1.457	0.027	0.151	0.001	0.341	920.370	37.035	912.823	11.108	906.124	5.334	99%	906
YS-P1-88	57.425	359.356	0.160	0.070	0.001	1.472	0.030	0.151	0.001	0.347	922.220	40.743	919.139	12.484	908.621	6.076	98%	909
YS-P1-16	77.460	350.134	0.221	0.071	0.002	1.622	0.037	0.164	0.002	0.450	968.515	45.833	978.874	14.300	977.614	9.301	99%	978
YS-P1-03	156.003	323.311	0.483	0.074	0.003	1.733	0.086	0.166	0.002	0.199	1000.000	87.810	1020.775	31.862	989.416	9.041	96%	989
YS-P1-56	253.647	557.088	0.455	0.078	0.002	1.909	0.041	0.177	0.001	0.376	1036.730	43.363	1084.225	14.210	1050.991	7.780	96%	1037
YS-P1-37	59.811	270.748	0.221	0.084	0.002	2.329	0.048	0.199	0.001	0.348	1138.895	38.890	1221.247	14.560	1169.110	7.637	95%	1139
YS-P1-85	47.474	17.637	2.692	0.069	0.004	1.900	0.104	0.202	0.003	0.315	1305.555	121.140	1081.107	36.381	1188.290	18.709	90%	1306
YS-P1-53	561.430	204.457	2.746	0.115	0.012	2.857	0.255	0.226	0.006	0.303	1546.300	191.513	1370.771	67.233	1311.943	32.208	95%	1546
YS-P1-71	114.462	163.274	0.701	0.096	0.002	3.702	0.073	0.279	0.002	0.385	1787.040	37.038	1571.892	15.835	1587.725	10.747	98%	1787
YS-P1-89	51.708	536.091	0.096	0.117	0.002	4.869	0.084	0.301	0.002	0.407	1787.350	29.940	1796.914	14.614	1694.612	10.531	94%	1787
YS-P1-75	77.805	94.152	0.826	0.109	0.002	4.749	0.090	0.315	0.003	0.427	1817.590	40.898	1776.015	15.926	1764.986	12.528	99%	1818
YS-P1-15	33.712	76.461	0.441	0.109	0.003	4.817	0.115	0.318	0.003	0.380	1843.520	42.593	1787.792	20.151	1778.654	14.157	99%	1844
YS-P1-60	38.093	73.105	0.521	0.121	0.003	5.459	0.131	0.326	0.003	0.393	1845.990	41.512	1894.161	20.573	1820.315	14.932	96%	1846
YS-P1-80	89.715	275.213	0.326	0.116	0.002	5.293	0.080	0.330	0.002	0.429	1847.225	26.695	1867.718	12.976	1839.902	10.439	98%	1847
YS-P1-66	91.129	227.396	0.401	0.113	0.003	5.187	0.149	0.332	0.004	0.418	1864.510	51.700	1850.562	24.412	1847.954	19.263	99%	1865
YS-P1-65	28.389	24.246	1.171	0.118	0.004	5.406	0.188	0.334	0.004	0.350	1868.830	66.665	1885.807	29.750	1857.750	19.628	98%	1869
YS-P1-35	589.474	475.345	1.240	0.120	0.002	5.606	0.099	0.338	0.002	0.390	1876.240	31.483	1916.977	15.257	1877.383	11.260	97%	1876
YS-P1-01	6.161	14.818	0.416	0.114	0.004	5.313	0.178	0.339	0.004	0.380	1891.050	58.338	1870.959	28.578	1883.519	20.762	99%	1891
YS-P1-30	82.871	160.004	0.518	0.111	0.002	5.260	0.103	0.342	0.003	0.419	1895.370	34.108	1862.462	16.756	1896.138	13.505	98%	1895
YS-P1-83	52.991	152.317	0.348	0.122	0.002	5.780	0.104	0.342	0.003	0.492	1910.185	32.095	1943.407	15.654	1897.535	14.608	97%	1910
YS-P1-21	78.161	77.010	1.015	0.125	0.003	5.956	0.140	0.344	0.003	0.384	1917.590	41.820	1969.472	20.540	1904.039	14.946	96%	1918
YS-P1-10	203.282	211.307	0.962	0.113	0.002	5.382	0.092	0.345	0.003	0.462	1920.370	30.250	1882.013	14.657	1912.184	13.068	98%	1920

YS-P1-38	99.485	212.705	0.468	0.116	0.002	5.583	0.103	0.347	0.003	0.473	1927.785	31.483	1913.479	15.874	1922.462	14.489	99%	1928
YS-P1-46	10.421	24.535	0.425	0.122	0.003	5.866	0.148	0.348	0.004	0.469	1932.415	48.298	1956.178	21.963	1924.215	19.763	98%	1932
YS-P1-29	35.731	44.510	0.803	0.114	0.003	5.518	0.136	0.350	0.004	0.417	1951.550	40.275	1903.440	21.154	1934.068	17.147	98%	1952
YS-P1-31	176.997	231.525	0.764	0.118	0.002	5.790	0.107	0.353	0.003	0.398	1965.745	33.028	1944.844	16.130	1949.625	12.490	99%	1966
YS-P1-78	53.992	88.730	0.609	0.117	0.002	5.737	0.118	0.353	0.003	0.386	1972.225	36.423	1936.936	17.762	1950.620	13.351	99%	1972
YS-P1-18	168.071	284.480	0.591	0.118	0.003	5.806	0.133	0.353	0.003	0.421	1987.040	42.438	1947.344	19.854	1950.766	16.259	99%	1987
YS-P1-08	437.703	613.236	0.714	0.113	0.002	5.590	0.090	0.358	0.003	0.446	1987.965	29.480	1914.487	13.948	1972.167	12.273	97%	1988
YS-P1-58	181.843	337.540	0.539	0.126	0.003	6.233	0.126	0.358	0.004	0.508	1991.050	2.622	2009.130	17.720	1972.477	17.467	98%	1991
YS-P1-19	60.230	204.943	0.294	0.121	0.003	6.212	0.143	0.369	0.003	0.401	2021.910	43.050	2006.076	20.115	2023.333	16.035	99%	2022
YS-P1-67	11.684	15.378	0.760	0.126	0.005	6.426	0.259	0.372	0.005	0.362	2033.330	70.985	2035.897	35.499	2036.608	25.540	99%	2033
YS-P1-25	75.010	163.412	0.459	0.122	0.002	6.297	0.130	0.372	0.003	0.415	2035.490	41.200	2018.035	18.106	2038.738	15.002	98%	2035
YS-P1-70	163.047	261.805	0.623	0.125	0.002	6.452	0.128	0.374	0.003	0.456	2036.720	31.635	2039.412	17.457	2049.784	15.883	99%	2037
YS-P1-47	78.223	150.608	0.519	0.136	0.003	7.246	0.263	0.377	0.007	0.531	2038.885	41.048	2142.211	32.356	2060.267	33.926	96%	2039
YS-P1-59	129.809	565.904	0.229	0.125	0.002	6.566	0.122	0.377	0.003	0.443	2173.150	37.807	2054.855	16.383	2062.065	14.532	99%	2173
YS-P1-50	64.707	90.078	0.718	0.140	0.003	7.811	0.195	0.401	0.005	0.539	2233.335	35.648	2209.522	22.542	2171.925	24.867	98%	2233
YS-P1-68	217.076	192.621	1.127	0.151	0.003	8.612	0.239	0.411	0.006	0.505	2333.030	38.735	2297.837	25.307	2218.582	26.359	96%	2333
YS-P1-54	46.081	80.870	0.570	0.151	0.003	8.845	0.194	0.423	0.004	0.390	2353.710	38.888	2322.119	20.049	2274.959	16.428	97%	2354
YS-P1-49	79.190	603.998	0.131	0.157	0.003	9.437	0.172	0.432	0.003	0.408	2354.635	33.330	2381.476	16.842	2315.577	14.540	97%	2355
YS-P1-72	156.403	934.171	0.167	0.160	0.003	9.689	0.199	0.438	0.004	0.445	2355.250	31.790	2405.620	19.001	2342.235	18.031	97%	2355
YS-P1-09	381.386	646.969	0.589	0.155	0.002	9.487	0.152	0.443	0.004	0.523	2368.520	25.305	2386.273	14.837	2366.102	16.672	99%	2369
YS-P1-20	66.515	159.994	0.416	0.151	0.003	9.333	0.191	0.445	0.004	0.386	2398.150	37.343	2371.293	18.849	2372.865	15.728	99%	2398
YS-P1-81	104.720	153.837	0.681	0.152	0.002	9.374	0.150	0.446	0.004	0.534	2417.590	27.003	2375.242	14.775	2377.355	17.037	99%	2418
YS-P1-02	42.557	368.729	0.115	0.157	0.003	9.787	0.175	0.449	0.003	0.372	2427.775	29.932	2414.908	16.587	2388.981	13.377	98%	2428
YS-P1-42	135.444	137.445	0.985	0.168	0.004	10.435	0.218	0.449	0.004	0.392	2428.700	36.575	2474.120	19.408	2390.997	16.387	96%	2429
YS-P1-82	64.987	184.374	0.352	0.149	0.002	9.284	0.143	0.450	0.003	0.418	2450.305	27.935	2366.425	14.233	2397.355	12.974	98%	2450
YS-P1-34	371.343	584.888	0.635	0.163	0.003	10.261	0.160	0.453	0.002	0.337	2453.700	26.235	2458.548	14.491	2408.897	10.634	97%	2454
YS-P1-57	111.320	261.722	0.425	0.159	0.003	10.173	0.201	0.459	0.004	0.437	2491.665	32.717	2450.609	18.375	2435.268	17.582	99%	2492
YS-P1-44	20.726	21.423	0.967	0.164	0.004	10.602	0.268	0.470	0.006	0.497	2497.840	45.370	2488.845	23.529	2483.388	25.948	99%	2498
YS-P1-05	149.186	472.163	0.316	0.156	0.002	10.564	0.172	0.487	0.003	0.394	2535.490	26.850	2485.544	15.204	2559.702	13.641	97%	2535
YS-P1-61	48.769	190.428	0.256	0.176	0.004	12.615	0.235	0.515	0.005	0.482	2620.370	35.650	2651.309	17.600	2679.341	19.722	98%	2620
YS-P1-77	258.193	270.900	0.953	0.066	0.003	0.486	0.020	0.053	0.000	0.219	1200.000	83.328	402.175	13.461	333.080	2.882	81%	

YS-P1-40	222.144	236.307	0.940	0.051	0.013	0.420	0.090	0.046	0.001	0.078	220.440	499.940	356.344	64.586	291.184	4.748	79%	
YS-P1-84	288.547	331.095	0.871	0.121	0.005	2.854	0.114	0.173	0.002	0.256	1975.620	79.783	1369.795	30.089	1027.100	9.739	71%	
YS-P1-64	60.952	80.357	0.759	0.087	0.004	0.910	0.044	0.076	0.001	0.276	1349.995	93.058	656.838	23.163	472.361	6.034	67%	
Sample YS-P10 from the Permian in the Luonan area																		
YS-P10-09	156.213	207.756	0.752	0.051	0.005	0.304	0.040	0.041	0.001	0.144	233.400	205.535	269.818	31.164	259.394	4.804	96%	259
YS-P10-39	85.202	155.800	0.547	0.055	0.002	0.324	0.014	0.043	0.000	0.271	466.710	97.213	285.151	10.469	271.090	3.034	94%	271
YS-P10-13	130.311	185.553	0.702	0.051	0.002	0.305	0.013	0.043	0.001	0.291	250.065	99.985	270.341	10.105	272.711	3.314	99%	273
YS-P10-85	256.329	202.351	1.267	0.052	0.002	0.330	0.013	0.046	0.000	0.275	294.505	86.100	289.814	9.846	289.048	3.040	99%	289
YS-P10-72	148.440	295.814	0.502	0.054	0.002	0.343	0.011	0.046	0.000	0.300	368.570	68.510	299.404	7.981	289.743	2.618	96%	290
YS-P10-15	59.452	59.794	0.994	0.058	0.004	0.368	0.026	0.047	0.001	0.236	520.410	162.943	318.010	19.242	294.083	4.778	92%	294
YS-P10-24	100.828	75.736	1.331	0.054	0.003	0.336	0.018	0.047	0.001	0.308	353.760	138.875	293.887	13.425	294.817	4.679	99%	295
YS-P10-68	169.001	307.823	0.549	0.054	0.002	0.349	0.012	0.047	0.000	0.251	353.760	79.623	303.805	9.128	295.090	2.524	97%	295
YS-P10-59	145.328	272.941	0.532	0.054	0.002	0.350	0.012	0.047	0.000	0.303	388.940	75.920	304.741	8.746	295.212	2.908	96%	295
YS-P10-70	72.330	164.474	0.440	0.059	0.003	0.379	0.018	0.047	0.001	0.254	550.035	112.945	326.480	13.608	296.033	3.582	90%	296
YS-P10-02	336.773	423.220	0.796	0.055	0.002	0.358	0.011	0.047	0.001	0.343	416.715	68.513	310.431	8.349	296.103	3.100	95%	296
YS-P10-14	117.852	118.910	0.991	0.053	0.003	0.340	0.017	0.047	0.001	0.222	322.280	122.205	297.366	13.176	296.422	3.292	99%	296
YS-P10-54	148.528	214.942	0.691	0.054	0.002	0.348	0.013	0.047	0.000	0.269	353.760	87.028	303.019	10.155	296.518	3.029	97%	297
YS-P10-31	149.990	224.146	0.669	0.051	0.002	0.334	0.011	0.047	0.000	0.282	257.470	77.765	292.555	8.395	297.085	2.708	98%	297
YS-P10-69	196.039	308.661	0.635	0.055	0.002	0.356	0.011	0.047	0.000	0.265	398.200	76.845	309.152	7.966	297.764	2.307	96%	298
YS-P10-61	305.426	530.330	0.576	0.053	0.006	0.365	0.044	0.047	0.001	0.099	309.320	251.823	315.913	32.873	297.970	3.504	94%	298
YS-P10-80	225.642	349.943	0.645	0.052	0.002	0.344	0.012	0.047	0.000	0.276	300.060	81.473	300.017	9.236	298.814	2.866	99%	299
YS-P10-06	336.490	389.356	0.864	0.050	0.002	0.338	0.011	0.049	0.001	0.322	205.630	75.913	295.994	8.629	306.344	3.245	96%	306
YS-P10-05	97.031	160.295	0.605	0.052	0.002	0.356	0.016	0.049	0.001	0.265	300.060	101.835	308.985	11.684	311.217	3.529	99%	311
YS-P10-30	203.978	220.659	0.924	0.052	0.002	0.362	0.016	0.050	0.001	0.317	298.210	91.655	313.455	12.216	314.055	4.402	99%	314
YS-P10-64	147.072	222.527	0.661	0.054	0.002	0.369	0.015	0.050	0.001	0.339	353.760	88.880	319.121	10.874	314.463	4.135	98%	314
YS-P10-52	464.993	597.152	0.779	0.054	0.002	0.383	0.011	0.051	0.000	0.280	364.870	64.808	329.301	8.265	323.323	2.602	98%	323
YS-P10-81	47.648	70.121	0.680	0.057	0.003	0.403	0.023	0.052	0.001	0.290	494.485	126.835	343.645	16.726	324.971	5.274	94%	325
YS-P10-17	205.902	181.263	1.136	0.049	0.002	0.363	0.015	0.054	0.001	0.338	153.790	98.133	314.571	11.235	338.584	4.636	92%	339
YS-P10-83	67.890	141.764	0.479	0.058	0.003	0.516	0.023	0.065	0.001	0.261	516.705	99.985	422.238	15.307	405.900	4.556	96%	406
YS-P10-87	111.552	105.076	1.062	0.076	0.002	1.712	0.051	0.163	0.001	0.296	1098.150	65.278	1013.163	19.254	971.183	8.029	95%	971
YS-P10-76	339.239	775.760	0.437	0.117	0.002	4.786	0.089	0.294	0.003	0.470	1700.000	31.635	1782.385	15.602	1660.585	12.787	92%	1700

YS-P10-34	107.800	126.652	0.851	0.107	0.002	4.489	0.090	0.304	0.002	0.397	1722.220	40.433	1729.003	16.691	1711.526	12.005	98%	1722
YS-P10-53	229.392	443.592	0.517	0.116	0.002	4.903	0.103	0.304	0.002	0.354	1747.215	36.885	1802.758	17.802	1713.300	11.268	94%	1747
YS-P10-32	46.044	60.542	0.761	0.104	0.003	4.470	0.108	0.313	0.003	0.404	1828.700	51.853	1725.361	20.097	1755.069	15.046	98%	1829
YS-P10-19	277.239	617.057	0.449	0.113	0.002	4.873	0.097	0.313	0.002	0.381	1842.595	35.958	1797.628	16.826	1756.308	11.700	97%	1843
YS-P10-73	45.618	211.523	0.216	0.114	0.002	4.958	0.093	0.315	0.002	0.357	1845.990	33.335	1812.154	15.932	1762.860	10.391	97%	1846
YS-P10-22	129.428	222.850	0.581	0.105	0.002	4.585	0.082	0.316	0.002	0.423	1855.560	31.942	1746.599	14.997	1770.679	11.778	98%	1856
YS-P10-66	100.841	391.092	0.258	0.124	0.002	5.555	0.091	0.324	0.002	0.469	1861.115	29.628	1909.155	14.188	1809.444	12.193	94%	1861
YS-P10-65	91.189	564.510	0.162	0.118	0.002	5.552	0.142	0.344	0.009	0.973	1875.930	25.775	1908.679	22.023	1906.973	41.036	99%	1876
YS-P10-28	131.870	84.228	1.566	0.112	0.002	5.109	0.104	0.330	0.002	0.371	1891.050	36.733	1837.629	17.278	1836.461	12.078	99%	1891
YS-P10-16	34.357	34.821	0.987	0.114	0.003	5.207	0.140	0.330	0.003	0.370	1901.540	49.228	1853.691	23.012	1837.187	15.985	99%	1902
YS-P10-40	39.317	29.645	1.326	0.113	0.003	5.141	0.146	0.331	0.003	0.349	1914.500	52.780	1842.874	24.226	1841.506	15.939	99%	1915
YS-P10-47	278.456	319.021	0.873	0.115	0.002	5.273	0.101	0.332	0.002	0.345	1918.210	34.570	1864.462	16.407	1848.491	10.663	99%	1918
YS-P10-45	591.038	401.466	1.472	0.122	0.002	5.688	0.112	0.336	0.002	0.355	1920.370	39.810	1929.535	17.042	1869.107	11.363	96%	1920
YS-P10-08	377.999	631.571	0.599	0.129	0.003	6.018	0.160	0.338	0.005	0.527	1921.295	45.990	1978.486	23.247	1875.333	22.895	94%	1921
YS-P10-07	74.289	328.791	0.226	0.117	0.003	5.491	0.140	0.338	0.003	0.308	1929.330	47.840	1899.149	21.925	1877.778	12.833	98%	1929
YS-P10-51	137.487	325.535	0.422	0.122	0.003	5.725	0.139	0.339	0.003	0.357	1933.335	41.198	1935.091	21.056	1883.887	14.200	97%	1933
YS-P10-60	374.248	627.265	0.597	0.124	0.002	5.813	0.117	0.340	0.003	0.420	1934.880	35.185	1948.303	17.542	1887.297	13.909	96%	1935
YS-P10-79	56.561	54.783	1.032	0.113	0.003	5.306	0.140	0.340	0.004	0.415	1950.005	48.147	1869.856	22.544	1888.092	17.916	99%	1950
YS-P10-57	28.943	237.595	0.122	0.119	0.002	5.610	0.107	0.342	0.003	0.385	1951.550	33.335	1917.656	16.519	1896.279	12.132	98%	1952
YS-P10-11	201.366	185.384	1.086	0.116	0.002	5.492	0.109	0.342	0.003	0.374	1961.425	36.728	1899.327	17.029	1898.345	12.194	99%	1961
YS-P10-49	81.427	383.977	0.212	0.120	0.003	5.708	0.133	0.343	0.003	0.363	1968.830	72.993	1932.601	20.122	1898.749	13.924	98%	1969
YS-P10-29	165.903	37.289	4.449	0.118	0.003	5.616	0.133	0.346	0.003	0.410	1969.445	44.445	1918.592	20.457	1915.539	16.127	99%	1969
YS-P10-27	134.698	318.129	0.423	0.128	0.002	6.273	0.111	0.353	0.003	0.405	1976.240	31.790	2014.675	15.600	1946.739	12.119	96%	1976
YS-P10-58	23.028	245.602	0.094	0.120	0.002	5.847	0.119	0.354	0.003	0.408	1983.645	35.188	1953.445	17.706	1951.469	14.030	99%	1984
YS-P10-71	124.557	145.704	0.855	0.121	0.002	5.986	0.103	0.358	0.003	0.442	1988.580	29.783	1973.769	15.030	1971.799	12.962	99%	1989
YS-P10-62	273.033	94.444	2.891	0.121	0.003	6.039	0.139	0.360	0.003	0.352	2009.260	40.892	1981.536	20.063	1981.179	13.821	99%	2009
YS-P10-26	106.516	32.506	3.277	0.126	0.004	6.335	0.186	0.365	0.005	0.466	2012.960	50.615	2023.257	25.752	2004.126	23.555	99%	2013
YS-P10-74	284.086	33.708	8.428	0.118	0.003	5.966	0.172	0.365	0.004	0.382	2038.885	54.630	1970.965	25.063	2006.207	18.980	98%	2039
YS-P10-25	36.658	374.001	0.098	0.120	0.002	6.102	0.108	0.368	0.002	0.364	2075.920	33.025	1990.559	15.530	2019.059	11.237	98%	2076
YS-P10-56	384.670	421.487	0.913	0.137	0.002	6.965	0.126	0.368	0.002	0.359	2083.330	31.327	2106.946	16.081	2021.641	11.301	95%	2083
YS-P10-04	139.237	256.183	0.544	0.130	0.002	6.631	0.126	0.370	0.003	0.370	2092.280	33.643	2063.438	16.848	2028.218	12.306	98%	2092

YS-P10-75	204.947	365.897	0.560	0.139	0.003	7.161	0.151	0.371	0.004	0.449	2098.460	33.645	2131.654	18.843	2032.040	16.551	95%	2098
YS-P10-20	35.849	370.421	0.097	0.121	0.002	6.260	0.182	0.373	0.007	0.689	2100.000	37.033	2012.859	25.480	2044.780	35.100	98%	2100
YS-P10-55	61.253	95.095	0.644	0.129	0.003	6.921	0.150	0.387	0.003	0.406	2184.880	38.583	2101.333	19.319	2110.504	15.910	99%	2185
YS-P10-21	87.170	95.032	0.917	0.130	0.003	6.998	0.133	0.390	0.003	0.418	2211.110	34.105	2111.138	16.894	2121.053	14.367	99%	2211
YS-P10-41	175.479	630.908	0.278	0.167	0.003	9.452	0.206	0.407	0.004	0.405	2218.210	29.475	2382.875	20.095	2202.554	16.509	92%	2218
YS-P10-35	152.331	253.978	0.600	0.138	0.003	7.830	0.155	0.411	0.004	0.502	2236.115	34.573	2211.623	17.919	2219.176	18.726	99%	2236
YS-P10-48	66.496	80.016	0.831	0.142	0.003	8.137	0.195	0.414	0.004	0.382	2253.710	39.353	2246.318	21.770	2232.307	17.369	99%	2254
YS-P10-36	57.891	28.169	2.055	0.165	0.006	9.722	0.390	0.424	0.005	0.281	2280.555	62.655	2408.780	36.930	2280.474	21.627	94%	2281
YS-P10-23	174.683	259.069	0.674	0.141	0.002	8.472	0.137	0.435	0.003	0.414	2305.555	27.780	2282.973	14.760	2326.682	13.121	98%	2306
YS-P10-42	130.146	341.110	0.382	0.155	0.003	9.413	0.178	0.438	0.003	0.367	2310.800	31.788	2379.134	17.438	2341.098	13.669	98%	2311
YS-P10-33	182.337	200.658	0.909	0.154	0.003	9.339	0.166	0.440	0.004	0.453	2372.530	34.872	2371.865	16.373	2348.825	15.895	99%	2373
YS-P10-88	132.202	186.499	0.709	0.146	0.003	8.991	0.168	0.444	0.003	0.404	2387.350	31.793	2337.046	17.167	2366.441	15.042	98%	2387
YS-P10-18	250.979	433.411	0.579	0.144	0.003	8.865	0.155	0.444	0.003	0.382	2404.630	30.553	2324.157	15.993	2368.292	13.276	98%	2405
YS-P10-01	65.462	110.544	0.592	0.147	0.003	9.036	0.187	0.444	0.004	0.394	2453.700	35.340	2341.648	18.998	2370.695	16.229	98%	2454
YS-P10-03	315.762	307.710	1.026	0.163	0.003	10.406	0.213	0.461	0.005	0.533	2486.730	31.330	2471.603	19.037	2443.300	22.223	98%	2487
YS-P10-46	127.753	108.035	1.183	0.168	0.003	10.743	0.213	0.462	0.004	0.395	2488.580	32.253	2501.116	18.518	2450.166	16.030	97%	2489
YS-P10-10	30.991	85.986	0.360	0.165	0.004	10.599	0.232	0.463	0.004	0.377	2498.150	37.192	2488.639	20.385	2454.049	16.910	98%	2498
YS-P10-63	74.354	113.556	0.655	0.172	0.003	11.077	0.212	0.467	0.004	0.414	2505.555	31.482	2529.618	17.867	2468.843	16.274	97%	2506
YS-P10-82	144.532	123.708	1.168	0.160	0.005	10.368	0.308	0.467	0.005	0.377	2507.100	49.690	2468.170	27.567	2471.003	23.054	99%	2507
YS-P10-84	107.194	252.216	0.425	0.152	0.004	9.952	0.248	0.471	0.005	0.397	2509.570	40.890	2430.348	23.012	2486.645	20.427	97%	2510
YS-P10-50	247.162	283.961	0.870	0.165	0.004	10.850	0.267	0.475	0.004	0.341	2510.185	41.360	2510.386	22.950	2504.536	17.464	99%	2510
YS-P10-37	145.764	351.488	0.415	0.163	0.003	10.704	0.222	0.475	0.003	0.352	2526.850	35.188	2497.765	19.334	2504.686	15.190	99%	2527
YS-P10-44	79.357	105.620	0.751	0.167	0.004	10.967	0.248	0.475	0.004	0.356	2527.775	38.577	2520.349	21.074	2506.881	16.746	99%	2528
YS-P10-67	106.282	147.789	0.719	0.172	0.003	11.337	0.207	0.477	0.004	0.445	2538.885	30.400	2551.259	17.119	2514.506	16.951	98%	2539
YS-P10-77	56.120	75.504	0.743	0.164	0.003	10.869	0.217	0.479	0.004	0.414	2572.530	34.415	2511.984	18.617	2521.077	17.270	99%	2573
YS-P10-86	90.266	73.687	1.225	0.165	0.004	11.225	0.266	0.490	0.005	0.427	2573.150	37.040	2541.974	22.128	2570.847	21.447	98%	2573
YS-P10-78	47.236	191.089	0.247	0.180	0.003	13.086	0.243	0.524	0.004	0.405	2654.635	26.853	2685.854	17.591	2715.427	16.724	98%	2655
YS-P10-12	68.698	127.698	0.538	0.060	0.003	0.417	0.022	0.050	0.001	0.290	611.130	102.763	354.045	15.493	314.928	4.630	88%	
YS-P10-38	318.003	640.205	0.497	0.138	0.003	6.053	0.128	0.316	0.003	0.514	2205.860	33.333	1983.478	18.543	1771.374	16.927	88%	
YS-P10-43	319.597	959.072	0.333	0.121	0.003	4.451	0.107	0.266	0.003	0.529	1968.830	37.343	1721.892	19.895	1519.099	17.162	87%	

Spots	Th (ppm)	U (ppm)	$^{207}Pb/^{206}Pb$		$^{207}Pb/^{235}U$		$^{206}Pb/^{238}U$		rho	$^{207}Pb/^{206}Pb$		$^{207}Pb/^{235}U$		$^{206}Pb/^{238}U$	
			Ratio	1σ	Ratio	1σ	Ratio	1σ		Age (Ma)	1σ	Age (Ma)	1σ	Age (Ma)	1σ
GJ-1	8.45	284	0.060	0.001	0.823	0.020	0.099	0.001	0.348	603.410	53.693	609.519	11.198	610.494	4.967
GJ-1	8.52	288	0.060	0.001	0.817	0.019	0.099	0.001	0.445	611.130	48.138	606.603	10.433	607.549	5.895
GJ-1	8.31	288	0.060	0.001	0.812	0.020	0.098	0.001	0.385	611.130	51.843	603.418	11.484	601.431	5.590
GJ-1	8.98	307	0.059	0.002	0.806	0.024	0.099	0.001	0.377	566.700	69.275	600.373	13.534	607.700	6.526
GJ-1	8.67	299	0.060	0.002	0.816	0.022	0.098	0.001	0.364	605.575	57.398	605.695	12.118	604.624	5.592
GJ-1	8.29	283	0.062	0.002	0.841	0.021	0.099	0.001	0.388	657.420	55.550	619.502	11.864	607.193	5.751
GJ-1	8.46	285	0.059	0.002	0.799	0.020	0.097	0.001	0.355	583.360	59.248	595.990	11.216	596.904	5.047
GJ-1	8.42	284	0.061	0.001	0.833	0.019	0.099	0.001	0.395	633.350	51.843	615.143	10.661	609.035	5.316
GJ-1	8.34	281	0.061	0.002	0.823	0.020	0.098	0.001	0.350	633.350	75.915	609.942	11.168	603.201	4.922
GJ-1	8.09	280	0.058	0.002	0.781	0.026	0.097	0.001	0.272	527.815	77.765	586.063	15.079	598.813	5.282
GJ-1	8.31	279	0.060	0.001	0.812	0.019	0.098	0.001	0.339	594.470	48.140	603.639	10.440	602.493	4.480
GJ-1	8.17	277	0.060	0.001	0.801	0.018	0.097	0.001	0.411	611.130	49.990	597.267	9.919	594.449	5.128
GJ-1	8.29	280	0.061	0.002	0.809	0.024	0.097	0.001	0.335	627.795	61.103	601.846	13.620	594.340	5.709
GJ-1	8.33	279	0.061	0.002	0.814	0.022	0.097	0.001	0.357	638.905	74.988	604.565	12.417	594.159	5.533
GJ-1	8.10	276	0.059	0.002	0.799	0.019	0.097	0.001	0.355	588.915	63.878	596.238	11.008	599.495	4.962
GJ-1	8.33	284	0.062	0.002	0.825	0.026	0.097	0.001	0.291	664.830	67.430	610.788	14.214	595.081	5.136
GJ-1	8.29	277	0.062	0.002	0.832	0.020	0.097	0.001	0.349	670.070	69.438	614.706	10.960	597.068	4.738
GJ-1	8.47	286	0.059	0.002	0.811	0.020	0.099	0.001	0.362	583.360	55.545	603.071	11.451	607.088	5.282
GJ-1	8.42	286	0.061	0.001	0.827	0.019	0.098	0.001	0.386	638.905	56.473	611.989	10.821	604.472	5.248
GJ-1	8.45	284	0.060	0.001	0.823	0.020	0.099	0.001	0.348	603.410	53.693	609.519	11.198	610.494	4.967
GJ-1	8.52	288	0.060	0.001	0.817	0.019	0.099	0.001	0.445	611.130	48.138	606.603	10.433	607.549	5.895