Data repository item DR2006218

SAMPLE PREPARATION AND HANDLING

Mica bearing sandstone samples were mechanically crushed and sieved into several grain-size fractions. For further preparation the fraction 200–350 µm was used. Occasionally the next smaller fraction (125–200 µm) had to be considered too. Grains were cleaned in an ultrasonic bath with deionised water and isopropanol. Large samples were further split with a Frantz isodynamic magnetic separator before optically clear and unaltered single mica grains were handpicked under a binocular microscope. The mica concentrates were wrapped in aluminum-foil, encapsulated in sealed quartz vials and irradiated in the MTA KFKI reactor in Debrecen, Hungary for 16 and 22 hrs, respectively. DRA1 sanidine standard for which a $^{40}Ar/^{39}Ar$ plateau age of 25.03 ± 0.05 Ma has been reported (Wijbrans et al., 1995), was packed in between the samples to monitor variations in the neutron-flux along the length of the irradiation assembly. For measurements, irradiated grains were packed in a one-way aluminum sample-holder, which was then mounted into a UHV Ar-extraction line equipped with a combined MERCHANTEK^{TM} UV/IR laser-ablation facility, and a VG-ISOTECH^{TM} NG3600 mass spectrometer. Measurements were carried out at the ARGONAUT Laboratory at Salzburg University, Austria. Detrital single grains were heated by laser until fusion using a defocused (~1.5 mm diameter) 25 W CO_2-IR laser operating in Tem_{00} mode at wavelengths between 10.57 and 10.63 µm. The laser is controlled from a PC, and the position of the laser on the sample is monitored through a double-vacuum window on the sample chamber via a video camera in the optical axis of the laser beam on the computer screen. Gas clean-up is performed using one hot and one cold Zr-Al SAES getter. Gas admittance and pumping of the mass spectrometer and the Ar-extraction line are computer controlled using pneumatic valves. The NG3600 is a 18 cm radius 60° extended geometry instrument, equipped with a bright Nier-type source operated at 4.5 kV. Measurement is performed on an axial electron

multiplier in static mode, peak-jumping and stability of the magnet is controlled by a Hall-probe. For each increment the intensities of ^{36}Ar, ^{37}Ar, ^{38}Ar, ^{39}Ar, and ^{40}Ar are measured and the baseline readings on mass 35.5 are automatically subtracted. Intensities of the peaks are back-extrapolated over 16 measured intensities to the time of gas admittance either by a straight line or a curved fit. Intensities are corrected for system blanks, background, post-irradiation decay of ^{37}Ar, and interfering isotopes. Correction factors for interfering isotopes have been calculated from 10 analyses of two Ca-glass samples and 22 analyses of two pure K-glass samples, and are: $^{36}Ar/^{37}Ar_{(Ca)}$ = 0.00026025, $^{39}Ar/^{37}Ar_{(Ca)}$ = 0.00065014, and $^{40}Ar/^{39}Ar_{(K)}$ = 0.015466.

REFERENCE

Wijbrans, J. R., Pringle, M. S., Koopers, A. A. P., and Schveers, R., 1995, Argon geochronology of small samples using the Vulkaan argon laserprobe: Proc. Kon. Ned. Akad. Wetensch., v. 98, no. (2), p. 185-218.

TABLE DR1. $^{40}Ar/^{39}Ar$ RESULTS FROM STEP-WISE HEATING ANALYSES OF DETRITAL WHITE MICA FROM TWO BOREHOLES IN THE QAIDAM BASIN

Step	$^{36}Ar/^{39}Ar$ measured	$^{36}Ar/^{39}Ar$ 1-sigma abs.	$^{37}Ar/^{39}Ar$ corrected	$^{37}Ar/^{39}Ar$ 1-sigma abs.	$^{40}Ar/^{39}Ar$ measured	$^{40}Ar/^{39}Ar$ 1-sigma abs.	$\%^{40}Ar^*$	$\%^{39}Ar$	age [Ma]	+/- [Ma] 1-s abs.
Yue58-1 (1) with J=0.01809							Xiayoushashan Fm			
1	0.03047	0.00354	0.14663	0.00457	26.196	1.059	65.6	0.4	488.4	26.7
2	0.00679	0.00220	0.01914	0.00199	14.748	0.652	86.4	0.8	373.8	17.6
3	0.00417	0.00026	0.00521	0.00024	13.584	0.076	90.9	6.9	363.4	3.9
4	0.00061	0.00004	0.00011	0.00004	12.548	0.011	98.6	40.5	363.8	3.3
5	0.00002	0.00027	0.00005	0.00029	12.279	0.080	99.9	6.1	361.3	3.9
6	0.00001	0.00004	0.00052	0.00004	12.196	0.013	100.0	38.0	359.2	3.3
7	0.00125	0.00020	0.00630	0.00020	12.615	0.061	97.1	7.3	360.6	3.6
2-7								99.6	361.7	1.6
Yue58-1 (2) with J=0.01809							Xiayoushashan Fm			
1	0.005954	0.001318	0.002489	0.001258	20.332	0.392	91.3	5.9	522.2	10.6
2	0.000472	0.000125	0.000007	0.000124	14.849	0.037	99.1	51.9	425.3	3.9
3	0.001519	0.000175	0.020237	0.000167	15.033	0.052	97.0	40.6	422.1	4.0
4	0.002813	0.004263	0.041016	0.004535	21.336	1.269	96.1	1.6	568.9	30.6
2-3								92.5	423.7	2.3
Yue39-1 (1) with J=0.01799							Shangganchaigou Fm			
1	0.01551	0.01142	0.07725	0.01003	18.761	3.391	75.6	0.2	409.5	87.8
2	0.01691	0.00131	0.05693	0.00106	7.891	0.388	36.7	1.8	91.1	12.0
3	0.00083	0.00010	0.00318	0.00007	12.188	0.029	98.0	28.4	350.7	3.3
4	0.00008	0.00006	0.00282	0.00006	11.784	0.019	99.8	34.3	345.8	3.2
5	0.00005	0.00015	0.00111	0.00020	11.816	0.046	99.9	12.8	346.9	3.4
6	0.00169	0.00023	0.00018	0.00021	12.390	0.067	96.0	10.9	349.3	3.7
7	0.00523	0.00067	0.00822	0.00059	14.500	0.198	89.3	3.6	377.5	6.2
8	0.00080	0.00028	0.00667	0.00029	12.977	0.082	98.2	8.1	371.9	4.0
3-6								86.3	348.1	1.7
Yue39-1 (2) with J=0.01799							Shangganchaigou Fm			
1	0.01851	0.00977	0.12372	0.00987	12.074	2.891	54.7	0.5	202.4	83.9
2	0.00094	0.00009	0.00007	0.00008	12.283	0.028	97.7	56.0	352.3	3.3
3	0.01178	0.00190	0.00228	0.00165	15.379	0.564	77.4	3.0	349.5	15.4
4	0.00002	0.00017	0.00356	0.00015	11.804	0.050	100.0	33.4	346.9	3.4
5	0.00072	0.00091	0.02216	0.00108	14.037	0.269	98.5	4.7	400.3	7.9
6	0.00512	0.00207	0.01219	0.00191	16.753	0.613	91.0	2.5	436.7	16.1
2-4								92.4	349.6	2.7

TABLE DR2. $^{40}Ar/^{39}Ar$ RESULTS FROM TOTAL-FUSION ANALYSES ON DETRITAL WHITE MICA SINGLE-GRAINS FROM THE NORTHWESTERN PART OF THE QAIDAM BASIN. QA-SAMPLES REPRESENT SURFACE SAMPLES, ALL OTHERS ARE FROM BOREHOLES. BOREHOLE SAMPLES WITH THE SAME NAME ARE IN STRATIGRAPHIC ORDER.

$^{36}Ar/^{39}Ar$ meas.	$^{36}Ar/^{39}Ar$ 1-sigma abs.	$^{37}Ar/^{39}Ar$ corr.	$^{37}Ar/^{39}Ar$ 1-sigma abs.	$^{40}Ar/^{39}Ar$ meas.	$^{40}Ar/^{39}Ar$ 1-sigma abs.	$\%^{40}Ar^*$	age [Ma]	+/- [Ma] 1-sigma abs.
QA-97D-01 with J=0.0179						Qigequan Fm		
0.0068	0.0001	1.2423	0.0001	16.910	0.031	88.0	425.8	3.9
0.0152	0.0003	0.6767	0.0002	16.292	0.077	72.4	345.3	3.8
0.0155	0.0003	2.8715	0.0003	18.143	0.103	74.7	391.5	4.4
0.0187	0.0003	4.2280	0.0003	17.607	0.103	68.6	352.8	4.2
0.0070	0.0001	0.4383	0.0001	13.884	0.027	85.0	345.4	3.2
0.0023	0.0001	0.4268	0.0001	15.657	0.024	95.6	427.9	3.9
0.0041	0.0001	0.1908	0.0001	14.746	0.023	91.7	390.8	3.6
0.0008	0.0001	2.6837	0.0001	15.983	0.021	98.6	447.8	4.0
0.0016	0.0001	2.7425	0.0000	12.598	0.018	96.4	354.3	3.3
0.0045	0.0001	14.2511	0.0002	14.065	0.043	90.5	369.8	3.5
0.0015	0.0001	5.9917	0.0001	12.797	0.015	96.6	360.3	3.3
0.0073	0.0008	37.3962	0.0007	15.935	0.227	86.4	397.1	6.9
0.0101	0.0002	16.7971	0.0002	19.123	0.064	84.3	457.1	4.4
0.0052	0.0002	12.5412	0.0003	15.277	0.074	90.0	396.5	4.1
0.0053	0.0001	3.3114	0.0001	14.073	0.019	89.0	364.4	3.4
QA-97C-01 with J=0.01758						Shizigou Fm		
0.0063	0.0001	0.4175	0.0001	15.413	0.037	87.9	385.0	3.7
0.0427	0.0008	2.2191	0.0005	19.226	0.244	34.3	197.6	7.2
0.0201	0.0004	0.9438	0.0003	18.340	0.119	67.6	355.1	4.5
0.0190	0.0003	0.8052	0.0003	18.751	0.090	70.0	374.1	4.2
0.0080	0.0001	0.4299	0.0001	16.516	0.035	85.6	400.1	3.8
0.0144	0.0002	0.8521	0.0002	17.158	0.070	75.2	368.3	3.9
0.0092	0.0001	0.5459	0.0001	14.724	0.043	81.6	345.3	3.4
0.0164	0.0003	0.8272	0.0003	18.046	0.082	73.1	376.1	4.1
0.0156	0.0002	0.8037	0.0002	20.120	0.068	77.1	434.5	4.3
0.0045	0.0004	3.8332	0.0005	16.215	0.132	91.8	419.0	5.1
0.0059	0.0005	9.9781	0.0005	15.933	0.148	89.1	401.5	5.3
0.0020	0.0001	2.4513	0.0001	13.701	0.022	95.7	373.8	3.5
0.0026	0.0002	10.4196	0.0002	14.535	0.070	94.7	390.7	4.0
0.0026	0.0003	11.2074	0.0002	16.282	0.076	95.4	435.0	4.4
0.0014	0.0002	11.8819	0.0002	14.470	0.050	97.1	397.8	3.9
0.0012	0.0001	3.8558	0.0001	11.672	0.018	97.0	327.0	3.1
QA-96-01 with J=0.0168						Shizigou Fm		
0.0131	0.0002	0.6298	0.0002	22.454	0.074	82.7	489.6	4.7
0.0054	0.0003	0.3856	0.0003	16.990	0.075	90.6	414.7	4.2
0.0154	0.0003	0.8462	0.0003	20.190	0.099	77.5	420.5	4.5
0.0019	0.0002	7.3426	0.0002	16.465	0.056	96.6	426.8	4.1
0.0004	0.0002	10.6453	0.0002	14.219	0.065	99.2	383.1	3.8
0.0017	0.0002	0.5755	0.0001	13.916	0.045	96.4	366.1	3.5
0.0026	0.0002	7.9609	0.0002	14.002	0.066	94.5	361.8	3.7
0.0000	0.0002	1.5463	0.0002	17.860	0.072	99.9	472.8	4.5
0.0012	0.0002	0.6585	0.0003	15.171	0.067	97.7	400.9	4.0
0.0008	0.0002	9.3007	0.0002	17.734	0.063	98.7	464.5	4.4
0.0019	0.0003	17.7065	0.0003	14.071	0.097	96.1	368.8	4.1
0.0034	0.0006	2.6213	0.0006	16.748	0.172	93.9	422.7	5.6
0.0012	0.0004	9.5047	0.0004	15.110	0.113	97.6	399.0	4.5
QA-95-01 with J=0.01736						Shangyoushashan Fm		
0.0051	0.0001	0.2288	0.0001	14.626	0.026	89.6	369.5	3.3
0.0046	0.0001	0.2194	0.0001	17.547	0.038	92.2	446.3	4.0

0.0003	0.0001	0.0359	0.0001	18.292	0.032	99.4	494.7	4.3
0.0046	0.0001	0.2311	0.0001	18.433	0.028	92.6	467.8	4.1
0.0045	0.0001	0.2469	0.0001	16.399	0.029	91.9	419.0	3.7
0.0106	0.0001	0.3605	0.0002	16.701	0.039	81.3	381.5	3.5
0.0043	0.0044	35.4199	0.0036	21.496	1.321	94.1	542.5	31.0
0.0029	0.0002	13.5510	0.0002	16.125	0.074	94.8	424.1	4.1
0.0018	0.0001	5.2534	0.0001	13.069	0.029	96.0	355.2	3.2
0.0014	0.0002	10.6766	0.0002	14.029	0.063	97.0	382.3	3.7
0.0020	0.0002	4.8393	0.0001	14.201	0.056	95.8	382.1	3.7
0.0005	0.0001	2.8161	0.0001	15.339	0.021	99.0	421.6	3.7
0.0018	0.0002	7.5896	0.0002	12.431	0.059	95.6	338.0	3.4
0.0007	0.0000	1.8527	0.0000	12.219	0.010	98.2	341.0	3.1
QA-94-01 with J=0.01713						Shangyoushashan Fm		
0.0079	0.0001	0.3311	0.0001	11.240	0.027	79.1	255.4	2.5
0.0101	0.0001	0.4340	0.0001	9.110	0.040	67.3	179.7	2.0
0.0061	0.0001	0.2954	0.0001	14.027	0.017	87.2	342.9	3.1
0.0092	0.0001	0.4953	0.0001	9.976	0.041	72.6	210.6	2.3
0.0142	0.0003	0.7280	0.0002	10.863	0.079	61.3	194.4	2.9
0.0082	0.0001	0.4350	0.0001	13.891	0.032	82.5	323.1	3.1
0.0077	0.0001	0.4325	0.0001	8.442	0.035	73.2	181.0	2.0
0.0093	0.0001	0.5071	0.0001	10.607	0.039	74.0	227.1	2.4
0.0008	0.0000	2.2789	0.0000	12.013	0.006	97.9	330.8	3.0
0.0025	0.0001	1.8063	0.0001	13.672	0.028	94.5	360.4	3.3
0.0017	0.0000	2.2059	0.0000	13.156	0.014	96.2	353.6	3.2
0.0018	0.0001	5.8155	0.0001	13.269	0.027	96.1	355.9	3.3
0.0010	0.0001	8.2469	0.0001	7.919	0.039	96.1	220.7	2.3
0.0011	0.0001	3.6969	0.0001	12.170	0.023	97.4	333.0	3.1
0.0014	0.0001	6.4410	0.0001	10.136	0.028	95.8	277.2	2.7
QA-89-01 with J=0.01691						Shangganchaigou Fm		
0.0044	0.0001	0.2446	0.0001	13.230	0.020	90.2	331.3	3.1
0.0284	0.0007	1.5289	0.0005	22.086	0.211	62.0	375.6	6.2
0.0152	0.0003	0.7388	0.0003	22.441	0.088	80.0	477.7	4.7
0.0284	0.0006	1.8425	0.0009	43.724	0.210	80.8	844.8	7.9
0.0043	0.0007	4.2927	0.0006	14.577	0.201	91.3	365.6	6.0
0.0012	0.0022	11.8021	0.0021	17.187	0.655	98.0	451.8	16.1
0.0017	0.0006	3.2227	0.0006	15.584	0.182	96.7	409.1	5.8
0.0052	0.0006	13.7468	0.0006	20.437	0.194	92.4	499.8	6.3
0.0040	0.0005	6.1371	0.0005	9.152	0.134	87.0	227.4	4.2
0.0100	0.0012	5.1522	0.0013	11.431	0.363	74.3	241.6	10.0
0.0006	0.0007	27.8801	0.0006	13.562	0.203	98.6	367.4	6.0
0.0022	0.0008	6.7764	0.0008	14.683	0.251	95.5	383.5	7.1
0.0020	0.0013	3.1669	0.0013	18.796	0.382	96.8	483.6	9.9
0.0001	0.0003	1.9524	0.0003	7.933	0.077	99.8	226.2	3.0
0.0034	0.0012	32.3143	0.0012	16.552	0.355	93.9	420.4	9.4
0.0022	0.0003	17.5452	0.0003	8.630	0.098	92.5	228.0	3.4
QA-86-01 with J=0.01659						Xiaganchaigou Fm		
0.0179	0.0003	0.8917	0.0005	19.574	0.100	73.0	383.2	4.3
0.0391	0.0008	1.9309	0.0009	23.259	0.226	50.3	319.9	6.4
0.0225	0.0006	1.6574	0.0004	18.392	0.170	63.9	320.9	5.2
0.0220	0.0004	1.3174	0.0005	18.085	0.111	64.1	316.8	4.1
0.0217	0.0007	1.9602	0.0008	18.975	0.200	66.2	341.1	5.9
0.0161	0.0005	1.0210	0.0004	9.009	0.137	47.2	122.5	4.0
0.0244	0.0010	1.3801	0.0009	15.710	0.283	54.2	237.9	7.8
0.0008	0.0000	2.2789	0.0000	12.013	0.006	97.9	321.2	3.0
0.0042	0.0007	38.5238	0.0007	15.761	0.216	92.1	388.9	6.3
0.0040	0.0016	91.1020	0.0015	18.123	0.469	93.5	446.4	11.7

0.0036	0.0012	68.2944	0.0013	9.283	0.366	88.4	229.8	9.9
0.0024	0.0006	49.6778	0.0007	17.150	0.182	95.8	434.6	5.8
0.0006	0.0009	114.0900	0.0011	16.148	0.272	99.0	423.9	7.5
0.0003	0.0011	51.2572	0.0011	16.907	0.330	99.5	443.7	8.7
0.0004	0.0016	29.5104	0.0018	16.511	0.486	99.3	433.7	12.1
0.0003	0.0009	34.5053	0.0010	17.748	0.270	99.5	463.2	7.5
0.0001	0.0001	1.1236	0.0001	15.379	0.031	99.9	409.1	3.8
0.0043	0.0012	17.0406	0.0010	15.663	0.342	92.0	386.2	9.0
QA-133C-01 with J=0.01862						Xiaganchaigou Fm		
0.00048	0.00003	0.00052	0.00002	10.411	0.008	98.6	315.2	3.0
0.00028	0.00002	0.00113	0.00002	15.044	0.007	99.4	442.9	4.0
0.00323	0.00020	0.02698	0.00019	11.591	0.059	91.8	325.6	3.5
0.00109	0.00006	0.00819	0.00006	9.074	0.017	96.4	271.9	2.6
0.00038	0.00007	0.00043	0.00007	12.625	0.020	99.1	377.4	3.5
0.00039	0.00005	0.00007	0.00005	17.873	0.016	99.3	515.0	4.6
0.00026	0.00006	0.00010	0.00005	6.732	0.018	98.8	210.3	2.1
0.00029	0.00007	0.00064	0.00008	8.700	0.022	99.0	268.0	2.6
0.02734	0.00013	0.00229	0.00007	17.903	0.039	54.9	302.6	3.0
0.00030	0.00006	0.00197	0.00006	16.772	0.017	99.5	487.6	4.4
0.00167	0.00018	0.01721	0.00019	18.524	0.054	97.3	521.9	4.8
QA-133A-01 with J=0.01862						Lulehe Fm		
0.00018	0.00004	0.00004	0.00003	16.392	0.011	99.7	479.2	4.3
0.00108	0.00009	0.00102	0.00007	11.251	0.025	97.2	334.3	3.2
0.00065	0.00006	0.00099	0.00005	12.353	0.017	98.5	368.3	3.4
0.00461	0.00009	0.00267	0.00007	11.856	0.026	88.5	322.0	3.1
0.00299	0.00006	0.00298	0.00004	12.526	0.017	92.9	354.0	3.3
0.02466	0.00016	0.00153	0.00009	18.095	0.047	59.7	330.8	3.4
0.00304	0.00014	0.00097	0.00013	12.060	0.042	92.5	340.6	3.4
0.00130	0.00004	0.00005	0.00004	11.276	0.012	96.6	333.2	3.1
0.00019	0.00006	0.00026	0.00005	12.386	0.018	99.6	372.9	3.5
0.00071	0.00008	0.00015	0.00007	12.478	0.023	98.3	371.2	3.5
QA-132A-01 with J=0.01855						Lulehe Fm		
0.03214	0.00532	0.05867	0.00550	23.780	1.582	60.1	424.0	42.0
0.00031	0.00007	0.00082	0.00007	14.528	0.020	99.4	428.1	3.9
0.00171	0.00006	0.00099	0.00005	13.443	0.019	96.2	388.1	3.6
0.00521	0.00023	0.00498	0.00017	15.679	0.067	90.2	420.3	4.2
0.00073	0.00006	0.00237	0.00005	10.733	0.018	98.0	321.5	3.1
0.00020	0.00016	0.00200	0.00013	16.373	0.046	99.6	476.9	4.5
0.00030	0.00006	0.00042	0.00005	14.787	0.018	99.4	435.0	4.0
0.00071	0.00009	0.00019	0.00007	15.006	0.026	98.6	437.6	4.0
0.00101	0.00009	0.00054	0.00007	15.298	0.027	98.0	442.9	4.1
0.00008	0.00012	0.00005	0.00011	10.012	0.037	99.8	306.7	3.1
0.00064	0.00010	0.00004	0.00008	14.432	0.029	98.7	422.9	3.9
Wu5-1 with J=0.01792; from 1326 m beneath surface						Shangyoushashan Fm		
0.00139	0.00007	0.00174	0.00008	13.688	0.020	97.0	384.7	3.5
0.00006	0.00003	0.00172	0.00004	14.845	0.010	99.9	424.7	3.8
0.00184	0.00007	0.00147	0.00006	13.648	0.020	96.0	380.2	3.5
0.00087	0.00002	0.00132	0.00002	12.978	0.007	98.0	370.1	3.4
0.00049	0.00005	0.00171	0.00004	12.506	0.016	98.9	360.6	3.3
0.00045	0.00006	0.00265	0.00005	13.606	0.019	99.0	389.8	3.6
0.00086	0.00008	0.00473	0.00008	13.655	0.024	98.1	387.9	3.6
0.00173	0.00010	0.00131	0.00010	14.399	0.031	96.5	400.5	3.7
0.00095	0.00006	0.00008	0.00006	13.561	0.018	97.9	384.7	3.5
0.00070	0.00006	0.00060	0.00005	12.449	0.018	98.3	357.4	3.3
0.00039	0.00008	0.00677	0.00007	12.035	0.023	99.0	348.8	3.2

0.00136	0.00010	0.01047	0.00008	14.635	0.030	97.3	409.4	3.8
0.00050	0.00007	0.00186	0.00008	11.960	0.022	98.8	346.0	3.2
0.00060	0.00005	0.00157	0.00005	13.589	0.015	98.7	388.2	3.5
Sha33-1 with J=0.01834; 2002 m						Shangyoushashan Fm		
0.00100	0.00014	0.00020	0.00014	13.817	0.042	97.9	399.2	3.7
0.00023	0.00003	0.00016	0.00002	15.646	0.008	99.6	453.0	3.9
0.00078	0.00010	0.00322	0.00009	11.536	0.031	98.0	339.5	3.2
0.00035	0.00006	0.00140	0.00005	12.674	0.018	99.2	373.8	3.3
0.00310	0.00027	0.01984	0.00028	12.318	0.081	92.6	342.2	3.8
0.00187	0.00011	0.01139	0.00012	10.160	0.033	94.6	292.4	2.8
0.00009	0.00008	0.00021	0.00006	13.911	0.023	99.8	408.9	3.6
0.00228	0.00005	0.00144	0.00004	9.135	0.014	92.6	259.8	2.4
0.00242	0.00012	0.00321	0.00011	14.183	0.035	94.9	397.8	3.6
0.07261	0.00275	0.23068	0.00196	35.307	0.824	39.2	408.0	22.0
0.00056	0.00008	0.00838	0.00006	14.751	0.024	98.9	427.3	3.8
0.00056	0.00005	0.00723	0.00003	11.137	0.014	98.5	330.3	3.0
0.00016	0.00004	0.06938	0.00004	15.224	0.012	99.7	442.6	3.9
0.00045	0.00003	5.73810	0.00007	8.807	0.009	98.5	265.9	2.4
0.00013	0.00005	0.02681	0.00005	14.664	0.015	99.7	428.3	3.8
0.00040	0.00004	0.05308	0.00004	14.153	0.013	99.2	412.8	3.6
Yue42-1 with J=0.01803; 1599.5 m						Shangyoushashan Fm		
0.00114	0.00006	0.00112	0.00004	9.228	0.018	96.3	267.8	2.5
0.00086	0.00003	0.00030	0.00003	8.717	0.009	97.1	255.8	2.4
0.00073	0.00003	0.00047	0.00003	7.796	0.009	97.2	230.7	2.2
0.00086	0.00005	0.00025	0.00004	9.589	0.015	97.3	280.2	2.6
0.00110	0.00004	0.00011	0.00003	10.150	0.011	96.8	293.8	2.7
0.00085	0.00010	0.00169	0.00008	14.965	0.031	98.3	424.1	3.9
0.00033	0.00003	0.00003	0.00002	9.460	0.008	99.0	281.0	2.6
0.02606	0.00177	0.03669	0.00175	13.602	0.526	43.4	181.9	15.6
0.00038	0.00004	0.00074	0.00003	10.826	0.011	98.9	318.2	2.9
0.00117	0.00007	0.00276	0.00007	11.438	0.021	97.0	328.5	3.1
0.00021	0.00004	0.00215	0.00003	13.875	0.012	99.5	400.8	3.6
0.00056	0.00008	0.00516	0.00007	16.148	0.023	99.0	456.4	4.1
0.00069	0.00007	0.00297	0.00006	14.211	0.020	98.6	405.8	3.7
0.00935	0.00127	0.00608	0.00152	18.293	0.379	84.9	445.0	10.4
0.00059	0.00003	0.00075	0.00003	11.513	0.010	98.5	335.2	3.1
0.02257	0.00151	0.08506	0.00152	17.552	0.450	62.0	322.8	12.6
Wu7-1 with J=0.01796; 1368 m						Xiayoushashan Fm		
0.00006	0.00006	0.00009	0.00007	9.985	0.018	99.8	296.7	2.8
0.00135	0.00006	0.00101	0.00005	8.791	0.018	95.5	252.8	2.4
0.00893	0.00156	0.01075	0.00129	20.119	0.466	86.9	492.2	12.3
0.00139	0.00008	0.00138	0.00008	10.753	0.025	96.2	307.0	2.9
0.00059	0.00006	0.00069	0.00005	16.564	0.018	99.0	465.1	4.1
0.00074	0.00005	0.00029	0.00005	10.949	0.016	98.0	317.5	3.0
0.00198	0.00018	0.00771	0.00016	12.112	0.055	95.2	339.0	3.4
0.00051	0.00005	0.00147	0.00004	11.416	0.014	98.7	332.0	3.1
0.00211	0.00014	0.00702	0.00013	13.523	0.043	95.4	375.5	3.6
0.00115	0.00011	0.00081	0.00010	16.275	0.034	97.9	453.7	4.1
0.00046	0.00006	0.00158	0.00006	16.472	0.019	99.2	463.7	4.1
0.00026	0.00008	0.00298	0.00008	14.961	0.024	99.5	427.0	3.9
0.00010	0.00006	0.00226	0.00007	16.399	0.019	99.8	464.6	4.1
0.00081	0.00008	0.00573	0.00009	11.625	0.025	97.9	335.2	3.1
0.00024	0.00009	0.00150	0.00010	14.206	0.029	99.5	407.8	3.7
0.00030	0.00006	0.00049	0.00007	13.269	0.018	99.3	382.9	3.5
Lucan1-1 with J=0.01872; 2090 m						Xiayoushashan Fm		

0.00262	0.00013	0.00622	0.00011	15.947	0.037	95.1	450.6	4.2
0.00197	0.00008	0.00691	0.00007	14.385	0.024	96.0	414.3	3.8
0.00004	0.00003	0.00005	0.00003	14.667	0.009	99.9	437.0	3.9
0.00018	0.00005	0.00116	0.00005	13.527	0.016	99.6	405.4	3.7
0.00014	0.00003	0.00112	0.00002	10.862	0.008	99.6	332.4	3.1
0.00022	0.00008	0.00005	0.00006	13.807	0.023	99.5	412.6	3.8
0.00018	0.00016	0.00049	0.00012	14.537	0.047	99.6	432.4	4.1
Yue1-2 with J=0.01830; 2897 m						Xiayoushashan Fm		
0.00107	0.00003	0.00066	0.00002	15.611	0.008	98.0	444.8	3.9
0.00187	0.00012	0.00631	0.00011	6.298	0.034	91.2	179.9	2.0
0.00094	0.00007	0.00130	0.00007	8.856	0.021	96.9	262.6	2.5
0.02547	0.00518	0.04096	0.00452	23.970	1.543	68.6	474.2	39.4
0.00157	0.00009	0.00229	0.00008	13.910	0.028	96.7	396.5	3.6
0.00075	0.00008	0.00158	0.00007	8.306	0.024	97.3	248.4	2.4
0.00221	0.00011	0.00472	0.00009	15.146	0.032	95.7	424.0	3.8
0.00046	0.00005	0.03844	0.00005	13.035	0.014	99.0	381.9	3.4
0.00003	0.00005	0.00757	0.00005	6.474	0.016	99.9	201.3	1.9
0.00051	0.00006	0.03379	0.00005	6.659	0.016	97.7	202.6	1.9
0.00374	0.00015	0.14577	0.00011	7.378	0.044	85.0	195.6	2.2
Yue58-1 with J=0.01809; 1773 m						Xiayoushashan Fm		
0.00070	0.00001	0.00106	0.00002	7.428	0.004	97.2	221.1	2.1
0.00387	0.00016	0.00504	0.00014	9.777	0.048	88.3	261.4	2.8
0.00049	0.00002	0.00075	0.00001	4.072	0.005	96.4	123.3	1.2
0.00398	0.00025	0.00028	0.00021	9.296	0.073	87.3	246.8	3.1
0.00143	0.00004	0.00003	0.00004	9.651	0.013	95.6	278.1	2.6
0.00216	0.00003	0.00085	0.00003	12.406	0.009	94.9	347.7	3.2
0.00025	0.00003	0.00017	0.00003	12.824	0.010	99.4	374.0	3.4
0.00048	0.00017	0.00375	0.00018	13.914	0.050	99.0	400.9	3.8
0.00017	0.00006	0.00399	0.00006	15.963	0.017	99.7	456.0	4.0
0.00087	0.00020	0.00972	0.00015	14.282	0.060	98.2	407.5	3.9
0.00076	0.00015	0.00322	0.00017	13.661	0.043	98.4	392.1	3.7
0.00042	0.00008	0.00325	0.00006	11.817	0.024	99.0	345.7	3.2
0.00019	0.00004	0.00013	0.00003	12.809	0.011	99.6	374.1	3.4
0.00087	0.00005	0.00116	0.00005	16.488	0.015	98.4	464.1	4.1
0.00127	0.00006	0.00202	0.00006	12.342	0.017	97.0	353.1	3.2
0.00093	0.00005	0.00121	0.00004	12.978	0.014	97.9	372.8	3.4
0.00214	0.00018	0.00900	0.00019	8.642	0.052	92.7	243.7	2.7
0.00152	0.00009	0.00738	0.00008	14.671	0.026	96.9	412.6	3.7
0.00145	0.00007	0.00018	0.00009	15.866	0.021	97.3	443.9	4.0
0.00003	0.00004	0.00013	0.00005	16.488	0.012	99.9	470.3	4.1
0.00189	0.00003	0.00004	0.00003	13.465	0.009	95.8	378.1	3.4
Yue58-2 with J=0.01812; 1801 m						Xiayoushashan Fm		
0.00198	0.00010	0.00489	0.00009	12.613	0.029	95.4	355.3	3.3
0.00046	0.00002	0.00013	0.00003	12.854	0.007	98.9	373.7	3.4
0.05081	0.00170	0.00629	0.00154	24.384	0.508	38.4	282.5	14.4
0.00096	0.00017	0.00062	0.00015	10.368	0.050	97.3	302.3	3.1
0.00181	0.00004	0.00153	0.00004	10.198	0.012	94.7	290.6	2.7
0.00120	0.00005	0.00147	0.00005	8.889	0.015	96.0	258.9	2.4
0.00077	0.00003	0.00048	0.00004	16.057	0.010	98.6	454.6	4.0
0.00104	0.00003	0.00025	0.00002	11.830	0.008	97.4	341.7	3.1
0.00088	0.00004	0.00073	0.00003	15.963	0.011	98.4	451.4	4.0
0.00084	0.00003	0.00024	0.00003	12.413	0.008	98.0	358.9	3.2
0.00029	0.00004	0.03123	0.00004	16.375	0.012	99.5	466.2	4.1
0.00014	0.00009	0.08354	0.00009	13.333	0.027	99.7	388.9	3.5
0.00028	0.00002	0.02809	0.00003	11.577	0.007	99.3	340.9	3.1
0.00041	0.00003	0.02480	0.00003	14.475	0.010	99.2	416.7	3.7

0.00034	0.00002	0.02805	0.00002	10.717	0.006	99.1	317.0	2.9
0.00126	0.00009	0.07686	0.00008	13.384	0.027	97.2	381.5	3.5
Yue58-3 with J=0.01815; 1832 m						Xiayoushashan Fm		
0.00014	0.00322	0.03278	0.00344	1.317	0.952	96.8	40.8	30.5
0.00046	0.00126	0.00068	0.00129	11.865	0.374	98.9	347.8	10.6
0.00055	0.00010	0.00361	0.00010	12.497	0.031	98.7	364.0	3.4
0.00162	0.00013	0.00354	0.00013	16.289	0.039	97.1	454.8	4.1
0.00104	0.00005	0.00372	0.00005	14.328	0.016	97.9	408.6	3.6
0.00214	0.00010	0.01201	0.00011	12.665	0.029	95.0	356.0	3.3
0.00040	0.00007	0.00073	0.00008	14.180	0.021	99.2	409.7	3.7
0.00030	0.00008	0.00085	0.00008	14.433	0.024	99.4	417.0	3.7
0.00035	0.00005	0.00083	0.00005	8.704	0.014	98.8	261.2	2.4
0.00101	0.00004	0.00106	0.00004	14.412	0.012	97.9	411.1	3.7
0.00097	0.00009	0.00319	0.00009	13.407	0.026	97.9	385.0	3.5
0.00018	0.00012	0.00308	0.00014	14.334	0.036	99.6	415.4	3.8
0.00041	0.00005	0.00086	0.00005	12.905	0.014	99.1	376.0	3.4
0.00249	0.00432	0.22916	0.00432	18.997	1.283	96.1	516.1	31.9
0.00043	0.00005	0.00160	0.00006	13.727	0.015	99.1	397.6	3.6
0.00092	0.00016	0.00409	0.00016	14.520	0.049	98.1	414.6	3.9
0.00039	0.00005	0.00075	0.00006	14.182	0.014	99.2	409.8	3.7
0.00016	0.00003	0.00006	0.00003	13.444	0.009	99.7	392.3	3.5
0.00027	0.00007	0.00262	0.00007	8.177	0.020	99.0	246.9	2.4
Yue58-4 with J=0.01818; 1844 m						Xiayoushashan Fm		
0.00043	0.00007	0.00222	0.00007	7.233	0.021	98.2	218.7	2.1
0.00116	0.00008	0.00418	0.00007	12.826	0.025	97.3	368.6	3.4
0.00072	0.00005	0.00230	0.00005	9.161	0.014	97.7	271.5	2.5
0.00169	0.00005	0.00274	0.00005	12.719	0.016	96.1	361.5	3.3
0.00150	0.00011	0.00579	0.00010	13.858	0.033	96.8	393.3	3.6
0.00190	0.00023	0.00395	0.00023	11.143	0.067	95.0	317.0	3.4
0.00011	0.00005	0.00004	0.00004	14.067	0.016	99.8	409.6	3.7
0.00011	0.00010	0.00150	0.00010	16.196	0.031	99.8	464.4	4.1
0.00048	0.00006	0.00102	0.00005	9.178	0.018	98.5	274.0	2.6
0.00068	0.00012	0.00339	0.00012	13.454	0.034	98.5	389.0	3.6
0.01518	0.00077	0.02721	0.00065	16.143	0.229	72.2	346.3	6.9
0.00051	0.00009	0.01009	0.00008	9.598	0.028	98.4	285.5	2.7
0.00238	0.00003	0.00238	0.00002	13.494	0.010	94.8	376.7	3.4
0.00264	0.00007	0.00128	0.00006	9.794	0.020	92.0	273.4	2.6
0.00023	0.00005	0.02548	0.00005	9.391	0.014	99.3	282.0	2.6
0.00022	0.00003	0.00288	0.00002	8.926	0.007	99.3	269.0	2.5
0.00040	0.00004	0.02424	0.00004	16.853	0.013	99.3	478.8	4.2
Yue39-1 with J=0.01799; 1863 m						Shangganchaigou Fm		
0.00101	0.00002	0.00178	0.00001	4.405	0.005	93.2	128.1	1.2
0.00140	0.00002	0.00351	0.00001	5.880	0.005	93.0	168.8	1.6
0.00135	0.00005	0.00110	0.00004	9.080	0.014	95.6	261.3	2.5
0.00060	0.00003	0.00085	0.00002	16.610	0.008	98.9	466.8	4.1
0.00066	0.00003	0.00160	0.00002	13.690	0.010	98.6	391.7	3.5
0.00009	0.00004	0.00091	0.00003	13.463	0.011	99.8	390.2	3.5
0.00040	0.00004	0.00147	0.00003	13.505	0.013	99.1	388.9	3.5
0.00019	0.00003	0.00052	0.00003	9.266	0.010	99.4	276.2	2.6
0.00012	0.00004	0.00054	0.00004	13.430	0.013	99.7	389.0	3.5
0.00095	0.00005	0.00129	0.00004	9.481	0.015	97.0	275.9	2.6
0.00035	0.00003	0.00040	0.00003	13.916	0.010	99.2	400.0	3.6
0.00050	0.00007	0.00333	0.00007	10.171	0.020	98.5	298.7	2.8
0.00048	0.00003	0.00139	0.00003	9.210	0.008	98.5	272.2	2.5
0.00035	0.00005	0.00133	0.00004	11.836	0.014	99.1	345.1	3.2
0.00074	0.00004	0.00126	0.00004	8.959	0.012	97.6	263.0	2.5

0.00091	0.00004	0.00334	0.00004	9.708	0.013	97.2	282.5	2.6
0.00113	0.00008	0.00061	0.00007	13.758	0.023	97.6	389.8	3.6
0.00730	0.00054	0.00054	0.00054	16.331	0.161	86.8	409.4	5.5
Yuedong110-3 with J=0.01828; 2357 m						Shangganchaigou Fm		
0.00323	0.00098	0.01983	0.00085	12.595	0.289	92.4	347.6	8.5
0.00080	0.00006	0.00128	0.00006	13.410	0.017	98.2	388.9	3.5
0.00044	0.00002	0.00031	0.00002	9.245	0.007	98.6	277.6	2.5
0.00077	0.00003	0.00293	0.00003	14.101	0.008	98.4	407.4	3.6
0.00041	0.00003	0.00062	0.00004	11.953	0.010	99.0	352.8	3.2
0.00053	0.00004	0.00228	0.00004	9.050	0.012	98.3	271.3	2.5
0.00035	0.00006	0.00397	0.00007	12.835	0.018	99.2	377.1	3.4
0.00051	0.00008	0.00104	0.00009	11.292	0.025	98.7	334.0	3.1
0.00049	0.00005	0.00319	0.00004	12.428	0.016	98.8	365.0	3.3
0.00074	0.00005	0.00052	0.00005	9.186	0.016	97.6	273.4	2.5
0.00005	0.00006	0.00438	0.00005	9.598	0.018	99.9	290.8	2.7
0.00033	0.00004	0.00010	0.00004	13.221	0.012	99.3	387.5	3.4
0.00005	0.00010	0.00169	0.00013	16.149	0.029	99.9	465.9	4.1
0.00078	0.00004	0.00284	0.00003	9.048	0.011	97.4	269.1	2.5
0.00108	0.00004	0.00381	0.00004	14.411	0.012	97.8	413.1	3.6
0.00057	0.00005	0.00008	0.00005	14.217	0.016	98.8	411.9	3.7
Yuedong110-2 with J=0.01825; 3699 m						Xiaganchaigou Fm		
0.00066	0.00005	0.00050	0.00005	15.381	0.015	98.7	440.9	3.9
0.00076	0.00006	0.00157	0.00006	8.091	0.017	97.2	241.6	2.3
0.00144	0.00009	0.00160	0.00009	8.494	0.027	95.0	247.4	2.4
0.00119	0.00006	0.00128	0.00005	12.606	0.018	97.2	363.8	3.3
0.00089	0.00008	0.00206	0.00008	16.081	0.024	98.4	457.2	4.0
0.00068	0.00016	0.00461	0.00017	11.365	0.048	98.2	334.1	3.3
0.00079	0.00006	0.00227	0.00006	12.337	0.018	98.1	359.6	3.3
0.00033	0.00010	0.00085	0.00011	13.481	0.031	99.3	393.8	3.6
0.00019	0.00016	0.00120	0.00014	9.869	0.046	99.4	296.7	3.0
Yuedong110-1 with J=0.01820; 3756 m						Xiaganchaigou Fm		
0.00194	0.00006	0.00558	0.00006	6.159	0.018	90.7	174.2	1.7
0.00485	0.00028	0.01284	0.00033	11.226	0.085	87.2	295.5	3.6
0.00062	0.00007	0.00174	0.00005	12.392	0.019	98.5	361.6	3.3
0.00092	0.00003	0.00069	0.00002	15.441	0.010	98.2	439.4	3.9
0.00201	0.00005	0.00249	0.00004	12.866	0.016	95.4	363.3	3.3
0.00026	0.00010	0.00309	0.00008	13.867	0.030	99.4	403.6	3.7
0.00434	0.00077	0.01023	0.00070	13.114	0.227	90.2	351.4	6.9
Yue12-2 with J=0.01639; 1122 m						Xiaganchaigou Fm		
0.0002	0.0004	0.0095	0.0004	8.291	0.132	99.2	250.5	4.4
0.0039	0.0038	0.0099	0.0037	19.717	1.136	94.1	523.4	28.2
0.0009	0.0003	0.0199	0.0004	14.920	0.102	98.3	425.3	4.6
0.0034	0.0003	0.0283	0.0003	16.302	0.076	93.8	441.6	4.3
0.0004	0.0004	0.0051	0.0003	13.214	0.105	99.0	383.9	4.4
0.0009	0.0002	0.0006	0.0002	16.812	0.063	98.4	473.1	4.4
0.0045	0.0010	0.0328	0.0010	18.030	0.286	92.6	477.3	8.3
0.0015	0.0002	0.0095	0.0002	14.257	0.062	97.0	403.5	3.9
0.0070	0.0009	0.0295	0.0007	19.503	0.259	89.4	495.6	7.8
0.0096	0.0008	0.0534	0.0007	17.912	0.244	84.2	436.1	7.4
0.0013	0.0002	0.0022	0.0002	15.032	0.073	97.4	424.8	4.2
0.0025	0.0004	0.0117	0.0004	17.357	0.113	95.7	474.8	5.0
0.0076	0.0009	0.0234	0.0008	17.947	0.267	87.6	452.4	7.9
0.0073	0.0006	0.0762	0.0005	8.189	0.174	73.7	187.3	5.4
0.0052	0.0004	0.0940	0.0004	9.972	0.112	84.7	257.1	4.0
0.0186	0.0019	0.4510	0.0019	16.966	0.555	67.5	341.5	15.4

0.0140	0.0009	0.4046	0.0009	20.354	0.271	79.6	465.6	8.0
0.0432	0.0066	2.0633	0.0063	19.438	1.970	34.3	210.6	57.4
0.0074	0.0005	0.3645	0.0005	15.844	0.158	86.2	400.0	5.5
0.0037	0.0001	0.0572	0.0001	9.353	0.025	88.3	251.6	2.4
0.0019	0.0003	0.0440	0.0002	18.250	0.079	96.9	501.8	4.8
0.0032	0.0003	0.0520	0.0003	12.467	0.098	92.4	342.2	4.1
0.0036	0.0005	0.1493	0.0004	17.661	0.143	93.9	474.7	5.5
Yue12-1 with J=0.01639; 1164 m						Xiaganchaigou Fm		
0.00569	0.00006	0.04502	0.00006	14.112	0.017	88.1	334.1	3.0
0.00667	0.00006	0.05441	0.00007	14.446	0.017	86.4	335.3	3.0
0.00256	0.00003	0.01834	0.00003	14.281	0.009	94.7	360.9	3.2
0.00728	0.00004	0.01800	0.00003	16.773	0.012	87.2	387.2	3.4
0.00901	0.00013	0.08114	0.00013	12.663	0.038	79.0	273.4	2.7
0.00856	0.00018	0.12314	0.00020	16.117	0.054	84.3	362.4	3.5
0.01330	0.00038	0.14925	0.00035	16.591	0.113	76.3	339.8	4.1
0.00520	0.00007	0.05688	0.00007	12.457	0.021	87.7	296.6	2.7
0.01001	0.00020	0.12638	0.00020	14.187	0.058	79.2	304.4	3.1
0.00296	0.00003	0.02639	0.00003	13.302	0.009	93.4	334.1	3.0
0.01111	0.00012	0.10917	0.00009	13.406	0.035	75.5	276.5	2.7
0.01682	0.00028	0.19367	0.00023	17.379	0.084	71.4	333.6	3.6
0.00475	0.00005	0.04899	0.00005	14.718	0.015	90.5	355.7	3.2
0.00527	0.00007	0.05561	0.00006	12.811	0.020	87.8	305.0	2.8
0.00542	0.00006	0.05736	0.00006	12.565	0.017	87.3	297.7	2.7
Yue12-3 with J=0.01649; 1215 m						Xiaganchaigou Fm		
0.0417	0.0034	0.1987	0.0035	17.192	1.008	28.4	139.2	27.8
0.0121	0.0013	0.0983	0.0012	16.559	0.387	78.4	349.7	10.0
0.0029	0.0019	0.0524	0.0019	7.791	0.572	89.0	194.9	15.4
0.0516	0.0304	0.8462	0.0283	17.154	9.012	11.2	55.6	260.0
0.0020	0.0013	0.0063	0.0012	15.378	0.392	96.2	393.3	10.0
0.0000	0.0021	0.0016	0.0024	7.272	0.619	99.9	203.8	16.6
0.0139	0.0150	0.0067	0.0174	20.796	4.464	80.3	438.3	104.2
0.0012	0.0020	0.0123	0.0020	14.295	0.583	97.6	373.2	14.5
0.0008	0.0013	0.0042	0.0014	10.822	0.392	97.7	289.5	10.3
0.0113	0.0008	0.2998	0.0007	20.222	0.244	83.5	443.0	6.8
0.0316	0.0020	1.0959	0.0019	24.263	0.608	61.5	396.8	14.9
0.0068	0.0013	0.5521	0.0012	19.403	0.398	89.6	454.6	10.0
0.0098	0.0035	0.4497	0.0035	22.112	1.028	86.9	496.4	23.6
Yue12-5 with J=0.01659; 1682 m						Xiaganchaigou Fm		
0.0029	0.0002	0.0058	0.0002	15.710	0.056	94.6	397.4	3.9
0.0045	0.0003	0.0175	0.0002	19.668	0.075	93.2	478.8	4.6
0.0077	0.0002	0.0866	0.0002	14.170	0.047	84.0	324.7	3.3
0.0121	0.0002	0.1248	0.0002	16.056	0.057	77.8	339.3	3.5
0.0066	0.0003	0.0789	0.0002	9.101	0.080	78.4	201.4	2.9
0.0050	0.0002	0.0508	0.0002	17.244	0.053	91.4	418.5	4.0
0.0084	0.0004	0.1621	0.0004	16.582	0.129	85.0	378.9	4.7
0.0230	0.0007	0.3909	0.0007	13.233	0.219	48.7	182.9	6.2
0.0083	0.0002	0.1450	0.0002	14.658	0.047	83.2	332.0	3.3
0.0095	0.0002	0.1371	0.0002	8.997	0.058	68.8	175.9	2.3
0.0189	0.0003	0.2348	0.0003	16.019	0.104	65.1	287.5	3.8
0.0181	0.0004	0.2479	0.0004	14.466	0.123	63.1	253.9	4.0
0.0202	0.0007	0.2956	0.0007	10.826	0.208	44.9	139.6	5.9
0.0073	0.0002	0.1171	0.0002	9.307	0.057	76.8	201.8	2.5
0.0002	0.0006	1.7404	0.0005	14.764	0.176	99.7	393.8	5.6
0.0013	0.0002	0.3828	0.0002	14.815	0.056	97.4	386.7	3.8
0.0006	0.0010	14.0313	0.0009	8.940	0.302	97.9	244.3	8.2
0.0010	0.0002	3.5177	0.0003	13.831	0.073	98.0	365.4	3.8

0.0005	0.0001	0.1555	0.0001	15.296	0.032	99.0	403.8	3.8
0.0000	0.0002	0.3866	0.0002	16.694	0.072	100.0	440.6	4.3
0.0002	0.0002	0.7601	0.0003	14.595	0.063	99.7	389.7	3.9
0.0005	0.0003	0.2235	0.0003	9.885	0.094	98.6	270.1	3.5
0.0020	0.0006	7.2110	0.0006	10.480	0.186	94.5	273.9	5.4
0.0006	0.0004	0.5527	0.0004	18.157	0.127	99.0	470.6	5.2
0.0016	0.0005	4.2860	0.0004	9.785	0.137	95.1	258.7	4.3
YueII264-3 with J=0.01838; 1797 m						Xiaganchaigou Fm		
0.00084	0.00004	0.00035	0.00004	12.563	0.013	98.0	367.7	3.3
0.00039	0.00004	0.00130	0.00004	11.926	0.011	99.0	354.0	3.2
0.00188	0.00007	0.00161	0.00007	13.055	0.020	95.8	372.7	3.3
0.00391	0.00019	0.00616	0.00020	13.240	0.055	91.3	361.5	3.5
0.00117	0.00005	0.00030	0.00005	12.925	0.015	97.3	374.8	3.3
0.00098	0.00005	0.00066	0.00005	12.669	0.014	97.7	369.5	3.3
0.00168	0.00009	0.00321	0.00009	12.432	0.026	96.0	357.4	3.3
0.00173	0.00009	0.00129	0.00007	12.871	0.026	96.0	368.9	3.3
0.00060	0.00006	0.00028	0.00004	12.218	0.016	98.5	360.3	3.2
0.00139	0.00017	0.00382	0.00013	13.306	0.050	96.9	383.4	3.6
0.00160	0.00011	0.00263	0.00009	12.867	0.033	96.3	369.8	3.4
0.00086	0.00014	0.00642	0.00016	12.642	0.043	98.0	369.6	3.5
0.00176	0.00038	0.01218	0.00034	13.414	0.112	96.1	383.2	4.5
0.00018	0.00014	0.00165	0.00012	12.639	0.042	99.6	375.0	3.5
Qie4-1 with J=0.01732; 1010.5 m						Xiaganchaigou Fm		
0.0009	0.0004	37.3553	0.0004	13.132	0.118	98.0	362.9	4.4