

Data Repository Item 2003168

TABLE DR1: SAMPLE NUMBERS, LOCATION AND CRN DATA FOR BOULDERS ON MORAINES IN THE ANYEMAQEN AND NIANBAOYEZE MOUNTAINS

Sample #	Latitude ($\pm 0.01^\circ\text{N}$)	Longitude ($\pm 0.01^\circ\text{E}$)	Altitude (m)	Shielding factor*	Be-10 \S (10^6 atoms/g)	Exposure Age(ka) Be-10 \S	Geomag Corr.†(ka) Be-10 \S	Glacial Stages
Samples from the Anyemaqen Mountains								
A1	34.89	99.44	4285	0.997	0.26 \pm 0.01	3.24 \pm 0.10	3.84 \pm 0.11	Halong
A2	34.88	99.45	4335	0.998	0.34 \pm 0.01	4.22 \pm 0.12	4.90 \pm 0.13	Halong
A3	34.88	99.45	4340	0.995	0.11 \pm 0.01	1.29 \pm 0.06	1.39 \pm 0.07	Halong
A4	34.88	99.43	4285	0.998	0.67 \pm 0.02	8.38 \pm 0.22	8.96 \pm 0.23	Halong
A5	34.88	99.43	4285	0.998	0.52 \pm 0.01	6.56 \pm 0.17	7.15 \pm 0.17	Halong
A6	34.90	99.43	4285	1.000	0.79 \pm 0.04	9.85 \pm 0.49	10.50 \pm 0.49	Qiemuqu
A7	34.90	99.43	4275	1.000	1.17 \pm 0.04	14.75 \pm 0.50	15.79 \pm 0.49	Qiemuqu
A8	34.90	99.42	4275	1.000	0.73 \pm 0.02	9.20 \pm 0.23	9.80 \pm 0.23	Qiemuqu
A9	34.91	99.43	4265	1.000	1.78 \pm 0.04	22.58 \pm 0.49	23.85 \pm 0.45	Qiemuqu
A10	34.91	99.43	4260	1.000	0.97 \pm 0.02	12.35 \pm 0.23	13.23 \pm 0.23	Qiemuqu
A11	34.90	99.43	4270	1.000	1.32 \pm 0.03	16.69 \pm 0.39	17.81 \pm 0.38	Qiemuqu
A12	34.90	99.43	4310	1.000	1.03 \pm 0.02	12.75 \pm 0.23	13.67 \pm 0.23	Qiemuqu
A13	34.91	99.41	4130	1.000	1.17 \pm 0.03	15.86 \pm 0.38	16.95 \pm 0.37	Qiemuqu
A14	34.91	99.41	4150	1.000	0.96 \pm 0.04	12.86 \pm 0.53	13.79 \pm 0.52	Qiemuqu
A15	34.92	99.42	4165	1.000	1.19 \pm 0.04	15.84 \pm 0.47	16.93 \pm 0.45	Qiemuqu
A16	34.82	99.62	3820	1.000	1.16 \pm 0.04	18.57 \pm 0.65	19.75 \pm 0.62	Qiemuqu
A17	34.82	99.62	3820	1.000	0.85 \pm 0.02	13.54 \pm 0.33	14.51 \pm 0.33	Qiemuqu
A19	34.85	99.59	4000	1.000	0.99 \pm 0.02	14.43 \pm 0.34	15.45 \pm 0.34	Qiemuqu
A20	34.85	99.59	4015	1.000	0.76 \pm 0.02	10.88 \pm 0.27	11.62 \pm 0.27	Qiemuqu
A21	34.85	99.59	4015	1.000	1.23 \pm 0.03	17.75 \pm 0.42	18.91 \pm 0.41	Qiemuqu
A22	34.87	99.51	4225	1.000	2.05 \pm 0.08	26.61 \pm 1.01	27.86 \pm 0.93	Qiemuqu
A23	34.87	99.51	4205	1.000	1.42 \pm 0.03	18.59 \pm 0.46	19.78 \pm 0.43	Qiemuqu
A24	34.87	99.51	4200	1.000	0.34 \pm 0.01	4.43 \pm 0.00	5.13 \pm 0.18	Qiemuqu
A25	34.87	99.48	4345	0.995	1.17 \pm 0.03	14.24 \pm 0.34	15.26 \pm 0.34	Qiemuqu
A26	34.87	99.48	4355	0.995	0.92 \pm 0.02	11.11 \pm 0.26	11.88 \pm 0.27	Qiemuqu
A27	34.93	99.39	4095	0.997	0.64 \pm 0.02	8.88 \pm 0.27	9.49 \pm 0.28	Weigele Dangxiong [#]
A28	34.93	99.39	4100	0.997	0.45 \pm 0.02	6.17 \pm 0.22	6.76 \pm 0.23	Weigele Dangxiong [#]
A29	34.84	99.58	3945	0.994	0.66 \pm 0.02	9.94 \pm 0.24	10.59 \pm 0.25	Halong
A30	34.84	99.58	3945	0.994	0.74 \pm 0.02	11.15 \pm 0.35	11.91 \pm 0.34	Halong
A31	34.84	99.57	3970	0.995	0.71 \pm 0.02	10.47 \pm 0.35	11.17 \pm 0.34	Halong
A32	34.84	99.57	3980	0.996	0.77 \pm 0.03	11.28 \pm 0.39	12.06 \pm 0.39	Halong
A33	34.85	99.56	4200	1.000	3.84 \pm 0.16	50.81 \pm 2.07	50.79 \pm 1.74	Weigele Dangxiong
A34	34.85	99.56	4220	1.000	1.41 \pm 0.03	18.33 \pm 0.44	19.52 \pm 0.42	Weigele Dangxiong
A35	34.85	99.56	4220	1.000	3.34 \pm 0.09	43.68 \pm 1.20	43.34 \pm 1.04	Weigele Dangxiong
A36	34.85	99.55	4250	1.000	3.23 \pm 0.06	41.59 \pm 0.72	41.41 \pm 0.62	Weigele Dangxiong
A37	34.84	99.55	4045	0.996	0.77 \pm 0.04	10.97 \pm 0.54	11.72 \pm 0.54	Halong
A38	34.84	99.55	4055	0.995	0.59 \pm 0.02	8.29 \pm 0.34	8.86 \pm 0.34	Halong
Samples from Nianbaoyeze Mountains								
N1	33.40	101.25	4235	1.000	3.09 \pm 0.12	42.56 \pm 1.59	41.96 \pm 1.57	Jiukehe
N2	33.40	101.25	4227	1.000	2.05 \pm 0.05	28.25 \pm 0.68	29.35 \pm 0.70	Jiukehe

N3	33.40	101.25	4230	1.000	2.06±0.07	28.35±0.97	29.44±1.00	Jiukehe
N4	33.40	101.25	4232	1.000	2.63±0.06	36.22±0.86	36.64±0.87	Jiukehe
N5	33.40	101.25	4233	1.000	1.77±0.04	24.30±0.59	25.53±0.62	Jiukehe
N6	33.40	101.11	4053	1.000	1.31±0.03	19.68±0.48	20.89±0.50	Ximencuo
N7	33.40	101.11	4047	1.000	1.20±0.03	18.08±0.46	19.23±0.49	Ximencuo
N8	33.40	101.11	4043	1.000	1.25±0.04	18.87±0.57	20.06±0.60	Ximencuo
N9	33.40	101.10	4045	1.000	0.91±0.04	13.74±0.55	14.71±0.59	Ximencuo
N10	33.40	101.10	4045	1.000	1.29±0.03	19.46±0.51	20.66±0.55	Ximencuo
N11	33.41	101.10	4057	1.000	1.05±0.03	15.73±0.40	16.79±0.44	Ximencuo
N12	33.36	101.10	4048	0.974	1.02±0.03	15.09±0.38	16.12±0.40	Ximencuo
N13	33.36	101.10	4055	0.976	2.18±0.05	32.43±0.78	33.31±0.80	Ximencuo
N14	33.36	101.10	4046	0.975	1.05±0.04	15.55±0.54	16.60±0.57	Ximencuo
N15	33.36	101.10	4048	0.973	2.58±0.06	38.46±0.92	38.46±0.92	Ximencuo
N16	33.40	101.24	4212	1.000	3.01±0.07	41.93±1.01	41.39±0.99	Jiukehe
N17	33.40	101.24	4214	1.000	3.08±0.08	42.87±1.11	42.24±1.09	Jiukehe
N18	33.40	101.24	4217	1.000	1.27±0.03	17.55±0.43	18.69±0.45	Jiukehe
N19	33.40	101.24	4204	1.000	1.86±0.06	25.92±0.87	27.14±0.92	Jiukehe
N20	33.40	101.24	4216	1.000	1.86±0.06	25.76±0.88	26.99±0.92	Jiukehe
N21	33.46	101.08	4017	1.000	4.53±0.19	70.05±2.99	70.25±3.00	Jiukehe
N22	33.46	101.08	3974	1.000	1.18±0.03	18.43±0.49	19.60±0.51	Jiukehe
N23	33.46	101.08	3965	1.000	2.43±0.06	38.32±0.99	38.35±0.99	Jiukehe
N24	33.44	101.10	4085	1.000	2.02±0.06	29.90±0.95	30.92±0.97	Jiukehe
N25	33.44	101.10	4086	1.000	1.66±0.04	24.52±0.54	25.76±0.57	Jiukehe
N26	33.44	101.10	4099	1.000	1.18±0.04	17.29±0.55	18.41±0.59	Jiukehe
N27	33.44	101.10	4101	1.000	3.44±0.08	50.74±1.18	50.35±1.17	Jiukehe
N28	33.45	101.10	4113	1.000	3.79±0.12	55.62±1.69	55.83±1.69	Jiukehe

Notes: * The topographic shielding factor was determined using the methods of Nishiizumi et al. (1989).

§ Uncertainty includes only uncertainty in AMS measurement.

† Corrected for time varying geomagnetic field as described in text. The uncertainty is carried over from that in the average exposure age. No additional uncertainty was assigned arising from the correction for the geomagnetic field change.

Very young ages because the till that was dated was exhumed by deep fluvial incision.