

Locality Number	Country	Region	Longitude	Latitude	Origin of the coordinate*	Pluton / Massif / Region	Lithology	Dated Mineral	Method	Age (Ma)	Error (Ma)	Age(full)	Interpretation of the age	Reference	Cross-Ref
Loc. 1-1	Kyrgyzstan	Tianshan	69.593	40.797		Kyzata	Monzonite	Zr	SHRIMP	416.0	9.0	416±9	Emplacement	Seltman et al 2011	
Loc. 1-1	Kyrgyzstan	Tianshan	69.690	40.799		Almalyk	Monzonite	Zr	SHRIMP	308.0	1.0	308±1	Emplacement	Seltman et al 2011	
Loc. 1-1	Kyrgyzstan	Tianshan	69.645	40.814		Almalyk	Monzonite	Zr	SHRIMP	308.0	4.0	308±4	Emplacement	Seltman et al 2011	
Loc. 1-1	Kyrgyzstan	Tianshan	69.645	40.814		Almalyk	Granite porphyry	Zr	SHRIMP	315.0	1.0	315±1	Emplacement	Seltman et al 2011	
Loc. 1-1	Kyrgyzstan	Tianshan	69.607	40.711		Kara-Kiya	Deformed granite	Zr	SHRIMP	317.0	8.0	317±8	Emplacement	Seltman et al 2011	
Loc. 1-1	Kyrgyzstan	Tianshan	69.687	40.672		Akchasuiteat Tangel dysai	Acid volcanic	Zr	SHRIMP	305.0	3.0	305±3	Emplacement	Seltman et al 2011	
Loc. 1-1	Kyrgyzstan	Tianshan	70.137	40.943		Nadaksuite	?	Zr	SHRIMP	301.0	4.0	301±4	Emplacement	Seltman et al 2011	
Loc. 1-2	Kyrgyzstan	Tianshan	64.535	42.468		Karashohopipe	Granite dyke	Zr	SHRIMP	276.0	4.0	276±4	Emplacement	Seltman et al 2011	
Loc. 1-3	Russia	Kurgan Region	65.113	54.990	cop	East Kurganskaya-43 (well)	Basalt	Plg	Ar-Ar	261.0	1.0	261.0±15	Eruption age	Saraev et al 2010	
Loc. 1-3	Russia	Kurgan Region	65.113	54.990	cop	East Kurganskaya-42 (well)	Basalt	Plg	Ar-Ar	249.4	3.0	249.4±3.0	Eruption age	Saraev et al 2010	
Loc. 1-3	Russia	Kurgan Region	65.113	54.990	cop	East Kurganskaya-42 (well)	Basalt	Plg	Ar-Ar	247.0	3.0	247.0±3.1	Eruption age	Saraev et al 2010	
Loc. 1-3	Russia	Kurgan Region	65.113	54.990	cop	East Kurganskaya-43 (well)	Rhyolite	Plg	Ar-Ar	246.9	2.0	246.9±2.6	Eruption age	Saraev et al 2010	
Loc. 1-4	Kyrgyzstan	Talas–Ferghana fault	71.580	42.202		Karabura pass	Deformed granite	Phg	Ar-Ar	256.0	4.0	256±4	Deformation age (strike-slip)	Rolland et al 2013	
Loc. 1-4	Kyrgyzstan	Talas–Ferghana fault	71.580	42.202		Karabura pass	Deformed granite	Phg	Ar-Ar	242.0	0.0	242	Deformation age (strike-slip)	Rolland et al 2013	
Loc. 1-4	Kyrgyzstan	Talas–Ferghana fault	71.574	42.220		Karabura pass	Low green-schist metapelite	Phg	Ar-Ar	317.0	8.0	317±8	Deformation age (strike-slip)	Rolland et al 2013	
Loc. 3-1	Kazakhstan	Lesser Karatau	69.867	43.500		Kurgan Fm.	Rhyolite tuff	Zr	LA-ICP-M	766.0	7.0	766±7	Emplacement	Levashova et al 2011	
Loc. 4.1-1	Kyrgyzstan	North Tianshan	76.135	42.882		Aktyuz and Makbal	Eclogite	Gr-WR	Lu-Hf	474.3	2.2	474.3±2.2	HP metamorphism	Rojas-Agromente et al 2012	
Loc. 4.1-1	Kyrgyzstan	North Tianshan	76.130	42.888		Aktyuz	Eclogite	Omp-Hbl-Wr	Sm-Nd	462.0	7.0	462±7	HP metamorphism	Klemd et al 2013	
Loc. 4.1-1	Kyrgyzstan	North Tianshan	76.130	42.888		Aktyuz	Eclogite	Sm-Nd	464.0	9.0	464±9	HP metamorphism	Klemd et al 2013		
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.135	42.882		AktyuzComplex	Granitoid gneiss	Zr	SHRIMP	562.0	7.0	562±7	Emplacement	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.127	42.886		AktyuzComplex	Granitoid gneiss	Zr	SHRIMP	540.8	3.1	540.8±3.1	Emplacement	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.068	42.850		?	Leuco gabbro	Zr	SHRIMP	320.9	4.1	320.9±4.1	Formation	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.091	42.862		Kopurelisay Complex	Foliated metagabbro	Zr	SHRIMP	531.2	3.7	531.2±3.7	Formation	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.026	42.803		Dolpran Complex	Foliated granodiorite/quartz-diorite	Zr	SHRIMP	471.9	3.5	471.9±3.5	Emplacement	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.026	42.803		Dolpran Complex	Unfoliated granodiorite/quartz-diorite	Zr	SHRIMP	472.0	3.1	472.0±3.1	Emplacement	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	75.832	42.721		Cholok Formation	Porphyritic basaltic andesite	Zr	SHRIMP	448.9	5.6	448.9±5.6	Emplacement	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	75.691	42.729		Burbai Formation	Rhyolite	Zr	SHRIMP	451.9	4.6	451.9±4.6	Eruption age	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Tianshan	76.935	42.860		Aktyuz	Granite	Zr	SHRIMP	414.0	7.0	414±7	Emplacement	Seltman et al 2011	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.127	42.886		Aktyuz Complex	Granite-gneiss	Mus	Ar-Ar	471.0	1.0	471±1	HP metamorphism	Kröner et al 2012	
Loc. 4.1-1	Kyrgyzstan	Kyrgyz Tien Shan	76.111	42.872		Aktyuz Complex	Mylonitic granite-gneiss	Mus	Ar-Ar	469.0	1.0	469±1	HP metamorphism	Kröner et al 2012	
Loc. 4.1-2	Kyrgyzstan	Kyrgyz Tien Shan	72.073	42.770		Makbal complex	Eclogite	Zr	SHRIMP	509.0	7.0	509±7	HP metamorphism	Konopelko et al 2012	
Loc. 4.1-2	Kyrgyzstan	Kyrgyz Tien Shan	72.074	42.770		Makbal complex	Eclogite	Zr	SHRIMP	498.0	7.0	498±7	HP metamorphism	Konopelko et al 2012	
Loc. 4.1-2	Kyrgyzstan	Kyrgyz Tien Shan	72.075	42.770		Makbal complex	UHP grd-cld-tlk schist	Zr	SHRIMP	502.0	10.0	502±10	HP metamorphism	Konopelko et al 2012	
Loc. 4.1-2	Kyrgyzstan	Kyrgyz Tien Shan	71.940	42.819		Makbal complex	Granodiorite	Zr	SHRIMP	514.0	5.0	514±5	Emplacement	Konopelko et al 2012	
Loc. 4.1-2	Kyrgyzstan	North Tianshan	72.128	42.661		Aktyuz and Makbal	Eclogite	Gr-WR	Lu-Hf	470.1	2.5	470.1±2.5	HP metamorphism	Rojas-Agromente et al 2012	
Loc. 4.1-2	Kyrgyzstan	North Tianshan	72.128	42.661		Aktyuz and Makbal	Eclogite	Gr-WR	Lu-Hf	486.0	6.0	486±6	HP metamorphism	Rojas-Agromente et al 2012	
Loc. 4.1-2	Kyrgyzstan	Kyrgyz Tien Shan	72.500	42.500	cop	Chu-Sarysu sedimentary basin	Basaltic layer	Zr	U-Pb	432.0	5.4	432±5.4	Eruption age	Razak 2013	
Loc. 4.1-2	Kyrgyzstan	North Tianshan	72.055	42.767	fm	Aktyuz and Makbal	UHP grd-cld-tlk schist	Mnz	CHIME	481.0	26.0	481±26	HP metamorphism	Togonbaeva et al 2009	Rojas-Agromente et al 2012
Loc. 4.1-2	Kyrgyzstan	North Tianshan	72.055	42.767	fm	Aktyuz and Makbal	UHP grd-cld-tlk schist	Mnz	CHIME	480.0	56.0	480±56	HP metamorphism	Togonbaeva et al 2009	Rojas-Agromente et al 2013
Loc. 4.1-2	Kyrgyzstan	North Tianshan	72.069	42.745	fm	Aktyuz and Makbal	Eclogite	Prz	K-Ar	482.0	12.0	482±12	HP metamorphism	Tagiri et al 1995	Rojas-Agromente et al 2013
Loc. 4.1-2	Kyrgyzstan	North Tianshan	72.072	42.739	fm	Aktyuz and Makbal	UHP grd-cld-phg schist	Phg	K-Ar	509.0	13.0	509±13	HP metamorphism	Tagiri et al 2010	Rojas-Agromente et al 2013
Loc. 4.1-3	Kyrgyzstan	Kyrgyz Tien Shan	74.126	42.093		Kiukumerenski	Dolerite	Bt	Ar-Ar	427.0	19.0	427±19	Cooling age	Glorie et al 2010	
Loc. 4.1-3	Kyrgyzstan	Southern Tianshan	74.163	41.885	fm	W of Jumghal Basin	Granitoid	Zr	U-Pb	511.0	4.0	511±4	Emplacement	Kröner et al 2009	
Loc. 4.1-3	Kyrgyzstan	Kyrgyz Tien Shan	74.102	42.112		Kiukumerenski	Granite	Kfs	Ar-Ar	367.0	7.0	367±7	Cooling age	Glorie et al 2010	De Grave et al 2011
Loc. 4.1-3	Kyrgyzstan	Kyrgyz Tien Shan	73.837	42.310		Tokaipuasuiiski	Granite	Zr	LA-ICP-M	465.0	6.0	465±6	Emplacement	Glorie et al 2010	
Loc. 4.1-3	Kyrgyzstan	Kyrgyz Tien Shan	74.267	41.780		Susamyrskii	Granodiorite	Zr	SHRIMP	446.0	7.0	446±7	Emplacement	Glorie et al 2010	
Loc. 4.1-3	Kyrgyzstan	Kyrgyz Tien Shan	74.126	42.093		Kiukumerenski	Dolerite	Zr	SHRIMP	443.0	8.0	443±8	Emplacement	Glorie et al 2010	
Loc. 4.1-3	Kyrgyzstan	Kyrgyz Tien Shan	74.165	41.966		Kiukumerenski	Granite	Zr	LA-ICP-M	498.0	15.0	498±15	Emplacement	Glorie et al 2010	
Loc. 4.1-4	Kyrgyzstan	Kyrgyz Tien Shan	75.681	42.058		Juanaryk Complex	Unfoliated granodiorite	Zr	SHRIMP	441.0	6.0	441±6	Emplacement	Kröner et al 2013	
Loc. 4.1-4	Kyrgyzstan	Kyrgyz Tien Shan	75.078	42.084		Sandyk Range	Lamprophyre dyke	Zr	LA-ICP-M	263.1	3.9	263.1±3.9	Emplacement	De Grave et al 2011	
Loc. 4.1-5	Kyrgyzstan	Tianshan	76.146	42.297		Akkulen	Alkaline syenite	Zr	SHRIMP	292.0	1.0	292±1	Emplacement	Seltman et al 2011	
Loc. 4.1-5	Kyrgyzstan	Kyrgyz Tien Shan	75.882	42.303		Taralgha Complex	Unfoliated diorite	Zr	SHRIMP	461.0	4.0	461±4	Emplacement	Kröner et al 2013	
Loc. 4.1-5	Kyrgyzstan	Kyrgyz Tien Shan	75.876	42.297		Taralgha Complex	Unfoliated diorite	Zr	SHRIMP	451.0	5.0	451±5	Emplacement	Kröner et al 2013	
Loc. 4.1-5	Kyrgyzstan	Kyrgyz Tien Shan	75.877	42.310		Kiukmoinokski	Granite	Zr	SHRIMP	292.0	5.0	292±5	Emplacement	Glorie et al 2010	
Loc. 4.1-6	Kyrgyzstan	Kyrgyz Tien Shan	76.700	41.810	fm	Kichy- Naryn intrusion	Diorite	Zr	SHRIMP	466.0	10.0	466±10	Emplacement	Konopelko et al 2008	
Loc. 4.1-7	Kyrgyzstan	Kyrgyz Tien Shan	78.191	41.939	fm	Kumtor Au	Ore deposit	Zr	U-Pb	284.0	0.0	284	Formation	Abeileira et a 2000, Konopelko et al 2003	Mao et al 2004
Loc. 4.1-7	Kyrgyzstan	Kyrgyz Tien Shan	78.191	41.939	fm	Kumtor Au	Ore deposit	Zr	U-Pb	288.0	0.0	288	Formation	Abeileira et a 2000, Konopelko et al 2003	Mao et al 2004
Loc. 4.1-7	Kyrgyzstan	Kyrgyz Tien Shan	78.013	41.902	fm	Abeileira	Ore deposit	Zr	U-Pb	268.0	1.0	268±1	Formation	Abeileira et a 2000, Konopelko et al 2003	Mao et al 2004
Loc. 4.1-7	Kyrgyzstan	Kyrgyz Tien Shan	78.013	41.902	fm	Abeileira	Ore deposit	Zr	U-Pb	280.0	9.0	280±9	Formation	Abeileira et a 2000, Konopelko et al 2003	Mao et al 2004
Loc. 4.1-7	China	South Tianshan	79.280	42.098		Inylchek complex	Leucogranite	Zr	SHRIMP	289.0	6.0	289±6	Emplacement	Konopelko et al 2009	
Loc. 4.1-7	China	South Tianshan	79.086	42.060		Terekinsky complex	Granite	Zr	SHRIMP	291.0	5.0	291±5	Emplacement	Konopelko et al 2009	
Loc. 4.1-7	China	South Tianshan	79.098	42.044		Terekinsky complex	Diorite	Zr	SHRIMP	294.0	5.0	294±5	Emplacement	Konopelko et al 2009	
Loc. 4.1-8	China	S Tianshan granite belt	80.701	42.562	fm	Muzaerte River	Hornblende granodiorite	Zr	LA-ICP-M	437.4	1.1	437.4±1.1	Emplacement	Long et al 2011	
Loc. 4.1-8	China	S Tianshan granite belt	80.798	42.505	fm	Muzaerte River	Hornblende granodiorite	Zr	LA-ICP-M	247.2	0.9	247.2±0.9	Emplacement	Long et al 2011	
Loc. 4.1-8	China	S Tianshan granite belt	80.558	42.596	fm	Muzaerte River	Diorite	Zr	SHRIMP	470.0	12.0	470±12	Formation	Qian et al 2009	
Loc. 4.1-8	China	S Tianshan granite belt	80.577	42.623	fm	Muzaerte River	Basalt	Zr	SHRIMP	516.0	7.0	516±7	Formation	Qian et al 2009	
Loc. 4.1-8	China	Western Tianshan	80.597	42.435	cop	Muzaert and Akyazhi Rivers	Blueschist	Rtl	SIMS	308.0	12.0	308±12	HP metamorphism	Li et al 2011	
Loc. 4.1-8	China	Western Tianshan	80.698	42.478	cop	Muzaert and Akyazhi Rivers	Blueschist	Rtl	SIMS	320.0	10.0	320±10	HP metamorphism	Li et al 2011	
Loc. 4.1-8	China	Western Tianshan	80.738	42.492	cop	Muzaert and Akyazhi Rivers	Blueschist	Rtl	SIMS	320.0	14.0	320±14	HP metamorphism	Li et al 2011	
Loc. 4.1-8	China	Western Tianshan	80.611	42.437		Keburt River	Blueschist	Zr	SIMS	318.7	3.3	318.7±3.3	HP metamorphism	Su et al 2010	
Loc. 4.1-8	China	Western Tianshan	80.540	42.380		Keburt River	Blueschist	Zr	SIMS	319.5	2.9	319.5±2.9	HP metamorphism	Su et al 2010	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	W-mica-Wr	Rb-Sr	313.0	3.8	313.3±3.8	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	W-mica-Wr	Rb-Sr	301.6	3.4	301.6±3.4	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	W-mica-Ep-Gln	Rb-Sr	309.4	2.3	309.4±2.3	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	W-mica-Ep	Rb-Sr	309.0	3.0	309.0±3.0	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	W-mica-Wr	Rb-Sr	310.7	3.2	310.7±3.2	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	W-mica-Wr-Wr	Rb-Sr	310.1	3.1	310.1±3.1	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	Phg	Ar-Ar	311.3	0.9	311.3±0.9	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	Phg	Ar-Ar	311.6	0.9	311.6±0.9	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	Western Tianshan	80.661	42.407		Western Tianshan	Blueschist	Prz	Ar-Ar	310.9	18.0	310.9±18.0	HP metamorphism	Klemd et al 2005	
Loc. 4.1-8	China	South Tianshan	80.702	42.438	fm	West Tian Shan	Granulite	Zr	SHRIMP	299.0					

Loc. 4.1-11	China	Western Tianshan	84.344	43.221	cop	Laerdundaban	Trachy-andesite	Zr	SHRIMP	312.8	4.2	312.8±4.2	Eruption age	Zhu et al 2005 and 2009
Loc. 4.1-11	China	Western Tianshan	84.344	43.221	cop	Laerdundaban	Basalt	Zr	SHRIMP	324.0	4.9	324.0±4.9	Eruption age	Zhu et al 2009
Loc. 4.1-11	China	S Tianshan granite belt	84.286	43.184	fm	Du-Ku High Road	Granitic mylonites	Zr	LA-ICP-M	341.5	0.9	341.5±0.9	Emplacement	Long et al 2011
Loc. 4.1-11	China	S Tianshan granite belt	84.286	43.184	fm	Du-Ku High Road	Biotite diorite	Zr	LA-ICP-M	320.8	1.1	320.8±1.1	Emplacement	Long et al 2011
Loc. 4.1-11	China	South Tianshan	84.387	43.282		N of the Yili terrane	Trachybasalt	Zr	SHRIMP	312.8	4.2	312.8±4.2	post-collision (erupsion)	Zhu et al 2005
Loc. 4.1-11	China	South Tianshan	84.012	43.113	fm		Granitoid	Zr	LA-ICP-M	296.0	0.0	296	Emplacement	Han et al 2011
Loc. 4.1-11	China	South Tianshan	84.288	43.178	fm		Granitoid	Zr	LA-ICP-M	287.0	3.0	287±3	Emplacement	Han et al 2011
Loc. 4.1-12	Kyrgyzstan	Tianshan	76.067	40.997		Surteke	Alkaline gabbro	Zr	SHRIMP	284.0	1.0	284±1	Emplacement	Seltman et al 2011
Loc. 4.1-12	Kyrgyzstan	Kyrgyz Tien Shan	75.692	41.066		Atbashi Ridge	Eclogite	Grt-Omp-Gln-Wr	Sm-Nd	319.0	4.0	319±4	HP metamorphism	Hegner et al 2010
Loc. 4.1-12	Kyrgyzstan	Kyrgyz Tien Shan	75.692	41.066		Atbashi Ridge	Eclogite	Ar-Ar		316.5	3.0	316.5±3	LP metamorphism	Hegner et al 2010
Loc. 4.1-12	Kyrgyzstan	South Tien Shan	75.197	40.862	cop	Atbashi Ridge	Eclogite	Phg	Ar-Ar	327.1	4.2	327.1±4.2	HP metamorphism	Simonov et al 2008
Loc. 4.1-12	Kyrgyzstan	South Tien Shan	75.197	40.862	cop	Atbashi Ridge	Eclogite	Gln	Ar-Ar	281.0	11.0	281±11	HP metamorphism	Simonov et al 2008
Loc. 4.1-12	Kyrgyzstan	South Tien Shan	75.197	40.862	cop	Atbashi Ridge	Eclogite	Phg	Ar-Ar	324.2	9.7	324.2±9.7	HP metamorphism	Simonov et al 2008
Loc. 4.1-12	Kyrgyzstan	Kyrgyz Tien Shan	78.233	41.850		Kumtor gold deposit	Carbon-rich quartz-sericite rock	Src	Ar-Ar	284.3	3.0	284.3±3.0	Formation	Mao et al 2004
Loc. 4.1-12	Kyrgyzstan	Kyrgyz Tien Shan	75.627	41.037	cop	Kembel massif	Granitoid	Zr	LA-ICP-M	417.0	5.0	417±5	Emplacement	Glorie et al 2011a
Loc. 4.1-12	Kyrgyzstan	Kyrgyz Tien Shan	75.627	41.037	cop	Kembel massif	Granitoid	Zr	LA-ICP-M	410.0	4.0	410±4	Emplacement	Glorie et al 2011a
Loc. 4.1-12	Kyrgyzstan	Kyrgyz Tien Shan	75.605	40.863	cop	South Tien Shan suture	Granitoid	Zr	LA-ICP-M	282.0	3.0	282±3	Emplacement	Glorie et al 2011a
Loc. 4.1-12	Kyrgyzstan	Kyrgyz Tien Shan	75.605	40.863	cop	South Tien Shan suture	Granitoid	Zr	LA-ICP-M	286.0	4.0	286±4	Emplacement	Glorie et al 2011a
Loc. 4.1-13	Kyrgyzstan	Kyrgyz Tien Shan	76.674	41.715	fm	Kichy- Naryn intrusion	Granite	Zr	SHRIMP	437.0	3.0	437±3	Emplacement	Konopelko et al 2008
Loc. 4.1-13	Kyrgyzstan	Kyrgyz Tien Shan	76.718	41.701	fm	Kichy- Naryn intrusion	Diorite	Zr	SHRIMP	435.0	3.0	435±3	Emplacement	Konopelko et al 2008
Loc. 4.1-13	Kyrgyzstan	Tianshan	75.417	41.738		Song-Kul	Granite	Zr	SHRIMP	293.0	1.0	293±1	Emplacement	Alekseev et al 2009
Loc. 4.1-13	Kyrgyzstan	Kyrgyz Tien Shan	74.901	41.844		Song-Kul Range	Diorite	Zr	LA-ICP-M	502.7	9.2	502.7±9.2	Emplacement	De Grave et al 2011
Loc. 4.1-13	Kyrgyzstan	Kyrgyz Tien Shan	75.018	41.885		Song-Kul Range	Diorite	Zr	LA-ICP-M	498.3	5.8	498.3±5.8	Emplacement	De Grave et al 2011
Loc. 4.1-13	Kyrgyzstan	Kyrgyz Tien Shan	75.038	41.928		Song-Kul Range	Diorite	Zr	LA-ICP-M	453.6	7.2	453.6±7.2	Emplacement	De Grave et al 2011
Loc. 4.1-13	Kyrgyzstan	Kyrgyz Tien Shan	75.189	41.738		Bauralabas Range	Granite	Zr	LA-ICP-M	291.0	3.9	291.0±3.9	Emplacement	De Grave et al 2011
Loc. 4.1-14	Kyrgyzstan	Kyrgyz Tien Shan	72.907	42.164		Tshitshkano-Kogbinkski	Granodiorite	Zr	LA-ICP-M	482.0	8.0	482±8	Emplacement	Glorie et al 2010
Loc. 4.1-14	Kyrgyzstan	Kyrgyz Tien Shan	72.861	42.009		Tshitshkano-Kogbinkski	Granite	Zr	LA-ICP-M	462.0	7.0	462±7	Emplacement	Glorie et al 2010
Loc. 4.1-14	Kyrgyzstan	Kyrgyz Tien Shan	73.130	42.215		Tshitshkano-Kogbinkski	Granite	Zr	SHRIMP	452.0	9.5	452±9.5	Emplacement	Glorie et al 2010
Loc. 4.1-15	Kyrgyzstan	Tianshan	73.141	41.621		Karasu river	Pegmatoidal granites	Zr	SHRIMP	279.0	5.0	279±5	Emplacement	Seltman et al 2011
Loc. 4.1-15	Kyrgyzstan	Tianshan	73.136	41.619		Karasu river	Pegmatoidal granites	Zr	SHRIMP	279.0	5.0	279±5	Emplacement	Seltman et al 2011
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.262	41.559		Talas- Fergana fault zone	Mylonitized granitoids	Zr	SHRIMP	728.0	11.0	728±11	Emplacement	Konopelko et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.263	41.559		Talas- Fergana fault zone	Deformed granitoids	Zr	SHRIMP	778.0	11.0	778±11	Emplacement	Konopelko et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.141	41.621		Talas- Fergana fault zone	Deformed pegmatoidal granites	Zr	SHRIMP	279.0	5.0	279±5	Emplacement	Konopelko et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.262	41.559		Talas- Fergana fault zone	Mylonitized granitoids	Bt	Ar-Ar	199.2	3.4	199.2±3.4	Deformation age (strike-slip)	Konopelko et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.263	41.559		Talas- Fergana fault zone	Mylonitized granitoids	Mus	Ar-Ar	217.4	7.1	217.4±7.1	Deformation age (strike-slip)	Konopelko et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.135	41.619		Talas- Fergana fault zone	Deformed pegmatoidal granites	Mus	Ar-Ar	241.1	2.3	241.1±2.3	Deformation age (strike-slip)	Konopelko et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.141	41.621		Talas- Fergana fault zone	Deformed pegmatoidal granites	Mus	Ar-Ar	227.5	2.2	227.5±2.2	Deformation age (strike-slip)	Konopelko et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	72.936	41.700		Biskek Osh	Sheared metapelite	Phg	Ar-Ar	250.0	4.0	250±4	Deformation age (strike-slip)	Rolland et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.001	41.680		Karasu	Micaschist	Mus	Ar-Ar	312.0	4.0	312±4	Deformation age (strike-slip)	Rolland et al 2013
Loc. 4.1-15	Kyrgyzstan	Talas- Fergana fault zone	73.001	41.680		Karasu	Pegmatite dyke	Mus	Ar-Ar	195.0	3.0	195±3	Emplacement	Rolland et al 2013
Loc. 4.2-1	Kazakhstan	Western Kazakhstan	75.461	43.902	fm	Uzunbulak	Well-foliated granite-gneiss	Zr	SHRIMP	2791.0	24.0	2791±24	Emplacement	Kröner et al 2007
Loc. 4.2-1	Kazakhstan	Western Kazakhstan	75.826	43.556	fm	Anrakhai Mts.	Fine-grained felsic gneiss	Zr	Pb-Pb	2187.1	0.5	2187.1±0.5	Emplacement	Kröner et al 2007
Loc. 4.2-1	Kazakhstan	Western Kazakhstan	75.672	43.907	fm	Serektas River	Well-foliated granite-gneiss	Zr	Pb-Pb	1789.1	0.6	1789.1±0.6	Emplacement	Kröner et al 2007
Loc. 4.2-1	Kazakhstan	Western Kazakhstan	75.532	43.857	fm	Aschisu River	Red gneissic granite	Zr	Pb-Pb	741.5	0.7	741.5±0.7	Emplacement	Kröner et al 2007
Loc. 4.2-1	Kazakhstan	Western Kazakhstan	75.532	43.857	fm	Aschisu River	Metadacite	Zr	SHRIMP	534.0	7.0	534±7	Eruption age	Kröner et al 2007
Loc. 4.2-1	Kazakhstan	Southern Kazakhstan	75.463	43.894		Chu-Yili Mountains	Granodiorite	Zr	SHRIMP	508.8	3.0	508.8±3.0	HP metamorphism	Alexeiev et al 2011
Loc. 4.2-1	Kazakhstan	Southern Kazakhstan	75.462	43.893		Chu-Yili Mountains	HP garnet pyroxenites	Zr	SHRIMP	489.9	3.1	489.9±3.1	HP metamorphism	Alexeiev et al 2011
Loc. 4.2-2	Kazakhstan	Western Kazakhstan	73.997	44.999	fm	Lake Balkhash	Granodiorite	Zr	Pb-Pb	480.0	1.9	480±1.9	Emplacement	Kröner et al 2007
Loc. 4.2-2	Kazakhstan	Western Kazakhstan	73.997	44.999	fm	Lake Balkhash	Metadacite	Zr	Pb-Pb	477.7	1.1	477.7±1.1	Eruption age	Kröner et al 2007
Loc. 4.2-3	Kyrgyzstan	Kyrgyz Tien Shan	80.233	43.850		Djangart pluton	Granite	Zr	Ion microc	294.7	4.2	294.7±4.2	Emplacement	Mao et al 2004
Loc. 4.2-4	China	South Tianshan	82.410	44.007	cop	Yelimodun	Dacite	Zr	?	354.0	0.0	354	Eruption age	Bai et al 2011
Loc. 4.2-4	China	South Tianshan	82.450	43.895	cop	Nileke	Rhyolite	Zr	LA-ICP-M	363.0	0.0	363	Eruption age	An et al 2013
Loc. 4.2-4	China	South Tianshan	82.450	43.895	cop	Nileke	Rhyolite	Zr	LA-ICP-M	370.0	0.0	370	Eruption age	An et al 2013
Loc. 4.2-4	China	Tianshan	82.545	43.590		Western Tianshan	Granite	Zr	LA-ICP-M	302.5	2.6	302.5±2.6	Emplacement	An et al 2013
Loc. 4.2-4	China	N of Junggar	82.500	43.667	cop	Mosizaote pluton	Quartz-albite porphyry	Zr	LA-ICP-M	259.5	0.5	259.5±0.5	Emplacement	Zhang and Zou 2013
Loc. 4.2-5	Kazakhstan	Central Kazakhstan	72.744	44.777		Dzhalair-Nayman zone	Plagiogranite	Zr	U-Pb	519.0	4.0	519±4	Emplacement	Zhao et al 2008
Loc. 4.2-5	Kazakhstan	Western Kazakhstan	73.308	44.625	fm	Sulu River	Plagiogranite	Zr	Pb-Pb	512.6	1.0	512.6±1.0	Formation	Ryazantsev et al 2008
Loc. 4.2-5	Kazakhstan	Ordovician arc	72.744	44.943	fm	Jalair-Nairman	Plagiogranite	Zr	U-Pb	520.0	13.0	520±13	Emplacement	Kröner et al 2007
Loc. 4.2-6	Kazakhstan	Central Kazakhstan	75.329	43.701		Dulankara Mountains	Plagiogranite	Zr	U-Pb	521.0	2.0	521±2	Emplacement	?
Loc. 4.2-7	China	Central Tianshan	84.252	43.473	fm	Central Tianshan	Gneiss	Bt	Ar-Ar	250.5	7.9	250.5±7.9	Overprint	Ryazantsev et al 2008
Loc. 4.3-1	China	South Tianshan	81.272	44.919	cop	Jingxi	Tuff	Zr	SHRIMP	416.7	2.6	416.7±2.6	Eruption age	Xiao et al 1992
Loc. 4.3-1	China	South Tianshan	81.272	44.919	cop	Jingxi	Rhyolite	Zr	SHRIMP	386.4	9.3	386.4±9.3	Eruption age	An et al 2013
Loc. 4.3-1	China	Western Junggar	82.388	45.150	cop	NW Aibi Lake	Alkali-feldspar granite	Zr	U-Pb	298.0	0.0	298	Emplacement	An et al 2013
Loc. 4.3-1	China	Chinese Tianshan	81.102	44.916	fm	Wenquan area	Muscovite-bearing granite	Zr	LA-ICP-M	448.9	6.0	448.9±6.0	Emplacement	Liu et al 2005
Loc. 4.3-1	China	Chinese Tianshan	81.085	44.930	fm	Wenquan area	Diorite	Zr	LA-ICP-M	461.1	2.0	461.1±2.0	Emplacement	Huang et al 2013b
Loc. 4.3-1	China	Chinese Tianshan	81.088	44.926	fm	Wenquan area	Quartz diorite	Zr	LA-ICP-M	463.1	2.0	463.1±2.0	Emplacement	Huang et al 2013b
Loc. 4.3-1	China	Chinese Tianshan	80.481	44.890	fm	Wenquan area	Quartz diorite	Zr	LA-ICP-M	462.4	2.0	462.4±2.0	Emplacement	Huang et al 2013b
Loc. 4.3-1	China	Chinese Tianshan	80.631	44.935	fm	Wenquan area	Metagabbro	Zr	LA-ICP-M	453.8	2.0	453.8±2.0	Emplacement	Huang et al 2013b
Loc. 4.3-1	China	Chinese Tianshan	80.631	44.935	fm	Wenquan area	Granodiorite	Zr	LA-ICP-M	460.2	3.0	460.2±3.0	Emplacement	Huang et al 2013b
Loc. 4.3-2	China	South Tianshan	81.482	44.617	cop	Axi	Andesite	Zr	SHRIMP	356.2	2.0	356.2±2.0	Eruption age	Huang et al 2013b
Loc. 4.3-2	China	N Tianshan granite belt	80.005	44.634	fm	North Yili Block	Biotite-monzodiorite	Zr	LA-ICP-M	371.3	1.5	371.3±1.5	Emplacement	An et al 2013
Loc. 4.3-2	China	NW Tianshan	80.979	44.762		Lamasu area	Granodiorite porphyry	Zr	LA-ICP-M	366.0	3.0	366±3	Emplacement	An et al 2013
Loc. 4.3-2	China	NW Tianshan	81.424	44.742		Dabate area	Dacite	Zr	LA-ICP-M	316.0	4.0	316±4	Emplacement	Long et al 2011
Loc. 4.3-2	China	NW Tianshan	81.431	44.746		Dabate area	Granite porphyry	Zr	LA-ICP-M	289.0	3.0	289±3	Emplacement	Tang et al 2010
Loc. 4.3-2	China	Altai Mountains	81.897	44.714	fm	Kekesai area	Granodiorite porphyry	Zr	SHRIMP	317.0	6.0	317±6	Emplacement	Tang et al 2010
Loc. 4.3-2	China	Altai Mountains	81.357	44.753	fm	Dabate area	Dacite	Zr	SHRIMP	316.0	6.0	316±6	Emplacement	Y.P. Zhang et al2008
Loc. 4.3-2	China	Western Junggar	82.520	44.970	cop	W of Aibi lake	Alkali-feldspar granite	Zr	U-Pb	292.0	0.0	292	Emplacement	Tang et al 2010
Loc. 4.3-3	China	Altai Mountains	81.660	44.284	fm	Axi area	Volcanics	Zr	SHRIMP	363.0	6.0	363±6	Eruption age	Xu et al 2012
Loc. 4.3-4	China	South Tianshan	84.369	43.788	fm	N of the Yili terrane	Granitoid	Zr	U-Pb	301.0	0.0	301	Emplacement	Zhai et al2006
Loc. 4.3-4	China	South Tianshan	84.369	43.788	fm	N of the Yili terrane	Granitoid	Zr	U-Pb	280.0	0.0	280	Emplacement	B. Wang et al 2006 and 2007a
Loc. 4.3-4	China	South Tianshan	84.350	43.711	fm	N of the Yili terrane	Granitoid	Zr	U-Pb	294.0	0.0	294	Emplacement	B. Wang et al 2006 and 2007a
Loc. 4.3-4	China	South Tianshan	84.350	43.711	fm	N of the Yili terrane	Granitoid	Zr	U-Pb	309.0	3.0	309±3	Emplacement	B. Wang et al 2006 and 2007a
Loc. 4.3-4	China	S Tianshan granite belt	84.539	43.742	fm	Du-Ku High Road	Biotite diorite	Zr	LA-ICP-M	281.2	1.2	281.2±1.2	Emplacement	Long et al 2011
Loc. 4.3-4	China	S Tianshan granite belt	84.539	43.742	fm	Du-Ku High Road	Biotite granite	Zr	LA-ICP-M	296.6	0.8	296.6±0.8	Emplacement	Long et al 2011
Loc. 4.3-4	China	S Tianshan granite belt	84.539											

Loc. 8-1	Kazakhstan	Kokchetav Massif	69.198	53.081	Sulu-Tobe terrane	Zoisite amphibolite of eclogite	Hbl	Ar-Ar	512.0	0.9 512±0.9	LP metamorphism	Hacker et al 2003
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.194	53.136	Enbek-Berlyk terrane	Garnet-mica schist from fault	Mus	Ar-Ar	492.3	4.8 492.3±4.8	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.194	53.136	Enbek-Berlyk terrane	Garnet-mica schist from fault	Mus	Ar-Ar	495.5	6.0 495.5±6.0	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.211	53.142	Enbek-Berlyk terrane	Quartz-garnet-mica rock from fault	Mus	Ar-Ar	486.3	4.6 486.3±4.6	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.211	53.142	Enbek-Berlyk terrane	Quartz-garnet-mica rock from fault	Mus	Ar-Ar	473.7	7.2 473.7±7.2	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.342	53.071	Enbek-Berlyk terrane	Granite gneiss	Mus	Ar-Ar	486.0	9.0 486±9	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.211	53.143	Enbek-Berlyk terrane	Mica schist from fault zone	Mus	Ar-Ar	485.3	4.9 485.3±4.9	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.211	53.143	Enbek-Berlyk terrane	K-feldspar blastomylonite of gneiss	Bt	Ar-Ar	484.6	5.5 484.6±5.5	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.392	53.055	Enbek-Berlyk terrane	K-feldspar blastomylonite of gneiss	Bt	Ar-Ar	484.8	4.5 484.8±4.5	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.392	53.055	Enbek-Berlyk terrane	K-feldspar blastomylonite of gneiss	Bt	Ar-Ar	446.0	35.0 446±35	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.281	53.083	Enbek-Berlyk terrane	Mica schist of gneiss	Mus	Ar-Ar	481.9	4.7 481.9±4.7	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.281	53.083	Enbek-Berlyk terrane	Mica schist of gneiss	Mus	Ar-Ar	483.3	5.8 483.3±5.8	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Eclogite	Grt-Prx	Sm-Nd	533.0	20.0 533±20	HP metamorphism	Jagoutz et al 1990
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Diamondiferous gneiss (rim)	Zr	SHRIMP	530.0	7.0 530±7	HP metamorphism	Claoue-Long et al 1991
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Garnet-muscovite-kyanite-quartz schist	Mus	Ar-Ar	529.4	1.0 529.4±1.0	HP metamorphism	Dobretsov et al 2002
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Diamondiferous gneiss	Bt	Ar-Ar	510.8	0.9 510.8±0.9	LP metamorphism	Dobretsov et al 2002
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Garnet-mucovite-kyanite-quartz schist	Mus	Ar-Ar	509.4	0.9 509.4±0.9	LP metamorphism	Dobretsov et al 2002
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	High-temperature eclogites	Grt-Prx	Sm-Nd	528.0	7.0 528±7	HP metamorphism	Shatsky et al 1993
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.511	53.010 fl	Kulet	Amphibole-garnet-zoisite	Phg	Ar-Ar	522.0	5.0 522±5	HP metamorphism	Shatsky et al 1993
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.511	53.010 fl	Kulet	Garnet-kyanite-micaceous schist	Phg	Ar-Ar	519.3	1.8 519.3±1.8	HP metamorphism	Shatsky et al 1993
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Diamondiferous gneiss	Mus	Ar-Ar	517.1	5.4 517.1±5.4	HP metamorphism	Troesh and Jagoutz 1993
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Granite gneiss	Zr	U-Pb	510.0	5.0 510±5	LP metamorphism	Dobretsov et al 2006b
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.198	53.081 fl	Sulu-Tobe	Micaceous granite gneiss	Phg	Ar-Ar	469.0	1.8 469±1.8	HP metamorphism	Borisova et al 1995
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.198	53.081 fl	Sulu-Tobe	Amphibolized eclogite	Hbl	Ar-Ar	435.0	0.0 435	HP metamorphism	Travin 1999
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.342	53.071 fl	Enbek-Berlyk terrane	Granite gneiss	Bt	Ar-Ar	531.0	21.0 531±21	HP metamorphism	Travin 1999
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.196	53.137	Subduction-collision zone	Garnet-quartz-muscovite	Mus	Ar-Ar	484.2	4.0 484.2±4.0	LP metamorphism	De Grave et al 2006
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.211	53.147	Subduction-collision zone	Garnet-quartz-muscovite	Mus	Ar-Ar	480.4	3.9 480.4±3.9	LP metamorphism	De Grave et al 2006
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.213	53.140	Subduction-collision zone	Garnet-quartz-muscovite	Mus	Ar-Ar	481.9	4.0 481.9±4.0	LP metamorphism	De Grave et al 2006
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.247	53.138	Subduction-collision zone	Quartz-muscovite	Mus	Ar-Ar	481.6	4.0 481.6±4.0	LP metamorphism	De Grave et al 2006
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.337	53.073	Subduction-collision zone	Quartz-muscovite	Mus	Ar-Ar	478.9	3.9 478.9±3.9	HP metamorphism	De Grave et al 2006
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Barchi-Kol (Kumdy-Kol)	Gneiss	Zr	SHRIMP	528.0	3.0 528±3	HP metamorphism	Herman et al 2001
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Dimond bearnig pelitic gneisses	Zr	SHRIMP	537.0	9.0 537±9	HP metamorphism	Katayama et al 2001
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Dimond bearnig pelitic gneisses	Zr	SHRIMP	507.0	8.0 507±8	LP metamorphism	Katayama et al 2001
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Pelitic gneisses	Zr	SHRIMP	458.0	3.0 458±3	Late granitoid intrusion	Katayama et al 2001
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Eclogite	Grt-Prx	Sm-Nd	535.0	3.0 535±3	HP metamorphism	Shatsky et al 1999
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Gneiss	Mus	Ar-Ar	517.0	5.0 517±5	LP metamorphism	Shatsky et al 1999
Loc. 8-1	Kazakhstan	Kokchetav Massif	68.961	53.137 fl	Kumdy-Kol	Gneiss	Bt	Ar-Ar	515.0	5.0 515±5	LP metamorphism	Shatsky et al 1999
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.511	53.010 fl	Kulet	Garnet-biotite schist	Bt	Ar-Ar	517.0	36.0 517±36	LP metamorphism	Theunissen et al 2000
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.511	53.010 fl	Kulet	Granite gneiss	Bt	Ar-Ar	521.5	3.9 521.5±3.9	LP metamorphism	Theunissen et al 2000
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.869	53.113 fl	Accretionary prism	Mica schists in fault zone	Mus	Ar-Ar	489.7	3.0 489.7±3	LP metamorphism	Dobretsov et al 2005
Loc. 8-1	Kazakhstan	Kokchetav Massif	70.603	53.148 fl	Accretionary prism	Mica schists of quartzites	Mus	Ar-Ar	488.7	3.5 488.7±3.5	LP metamorphism	Dobretsov et al 2005
Loc. 8-1	Kazakhstan	Northern Kazakhstan	70.319	53.147	Kokchetav tectonic zone	Quartz-garnet-muscovite schists	Mus	Ar-Ar	499.0	5.0 499±5	Retrograde metamorphism (collision)	Zhimulev et al 2010
Loc. 8-1	Kazakhstan	Northern Kazakhstan	69.858	53.109	North Kokchetav zone	Quartzite	Mus	Ar-Ar	473.4	3.9 473.4±3.9	Retrograde metamorphism (collision)	Zhimulev et al 2011
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.254	53.229 fl	Fragment of Kokchetav microcontinent	Micaceous granite gneisses	Phg	Ar-Ar	498.0	2.2 498±2.2	LP metamorphism	Travin 1999
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.254	53.229 fl	Fragment of Kokchetav microcontinent	Amphibolites	Hbl	Ar-Ar	516.6	6.2 516.6±6.2	LP metamorphism	Travin 1999
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.263	53.291 fl	Accretionary prism	Mica schists of quartzites	Mus	Ar-Ar	487.6	3.5 487.6±3.5	LP metamorphism	Dobretsov et al 2005
Loc. 8-1	Kazakhstan	Kokchetav Massif	69.347	53.278 fl	Accretionary prism	Mica schists of quartzites	Mus	Ar-Ar	478.0	4.4 478±4.4	LP metamorphism	Dobretsov et al 2005
Loc. 8-1	Kazakhstan	Northern Kazakhstan	69.263	53.274	Kokchetav tectonic zone	Granite gneiss	Mus	Ar-Ar	483.8	3.7 483.8±3.7	Retrograde metamorphism (collision)	Zhimulev et al 2011
Loc. 8-1	Kazakhstan	Northern Kazakhstan	69.278	53.270	Kokchetav tectonic zone	Granite gneiss	Mus	Ar-Ar	469.1	3.7 469.1±3.7	Retrograde metamorphism (collision)	Zhimulev et al 2011
Loc. 8-1	Kazakhstan	Northern Kazakhstan	69.641	53.219	N boundary of Kokchetav tectonic zone	Fault zone	Mus	Ar-Ar	483.8	3.7 483.8±3.7	Retrograde metamorphism (collision)	Zhimulev et al 2011
Loc. 8-2	Kazakhstan	Northern Kazakhstan	68.394	53.287	Shalkar ophiolite	Plagiogranite	Zr	SHRIMP	485.0	6.0 485±6	Formation	Dobretsov et al 2006a
Loc. 8-3	Kazakhstan	Northern Kazakhstan	69.124	52.902	Balkashin	Granite	Zr	LA-ICP-M	413.0	5.0 413±5	Emplacement	Glorie et al 2013
Loc. 9-1	Kazakhstan	Ordovician arc	70.914	52.803 fm	Ishim-Stepnyak	Rhyolite	Zr	U-Pb	437.0	5.0 437±5	Emplacement	?
Loc. 9-2	Kazakhstan	Central Kazakhstan	71.972	52.475	Krykkuduk Complex	Tonalite	Zr	SHRIMP	457.3	6.6 457.3±6.6	Emplacement	Kröner et al 2008
Loc. 9-3	Kazakhstan	Central Kazakhstan	71.684	51.753	Krykkuduk Complex	Tonalite	Zr	SHRIMP	452.9	5.6 452.9±5.6	Emplacement	Kröner et al 2008
Loc. 9-3	Kazakhstan	Central Kazakhstan	71.684	51.753	Krykkuduk Complex	Tonalite	Zr	SHRIMP	447.4	5.4 447.4±5.4	Emplacement	Kröner et al 2008
Loc. 9-4	Kazakhstan	Central Kazakhstan	70.742	52.823	Yubileynaya near Stepnyak	Hybrid granodiorite (block?)	Zr	SHRIMP	480.6	5.0 480.6±5.0	Emplacement	Kröner et al 2008
Loc. 9-4	Kazakhstan	Northern Kazakhstan	70.499	52.647	Makinsk massif	Leucocratic granite	Zr	ID-TIMS	431.0	2.0 431±2	Emplacement	Letnikov et al 2009
Loc. 12-1	Kazakhstan	Central Kazakhstan	73.883	51.602	Boshchekul zone	Tonalite	Zr	U-Pb	524.0	4.0 524±4	Emplacement	Ryzantsev et al 2008
Loc. 12-1	Kazakhstan	Ordovician arc	74.225	51.741 fm	Akdym, Kulbai	Gabbro-diorite	Zr	U-Pb	494.0	3.0 494±3	Emplacement	?
Loc. 12-1	Kazakhstan	Ordovician arc	74.204	51.746 fm	Akdym, Kulbai	Syenite	Zr	U-Pb	506.0	2.0 506±2	Emplacement	?
Loc. 12-1	Kazakhstan	Cambrian arc	74.082	51.762 fm	Akdym, Zilarda	Tonalite	Zr	U-Pb	525.0	3.0 525±3	Emplacement	?
Loc. 12-1	Kazakhstan	Cambrian arc	74.082	51.762 fm	Akdym, Zilarda	Plagiogranite	Zr	U-Pb	520.0	2.0 520±2	Emplacement	?
Loc. 13.1-1	China	South Tianshan	83.731	46.975	Kujibai ophiolite	Gabbro	Zr	SHRIMP	478.0	3.0 478±3	Emplacement	Zhu & Xu 2006
Loc. 13.1-1	China	NW Junggar	83.008	47.102	Tarbagatay Mts.	Granodiorite	Zr	SHRIMP	325.0	3.0 325±3	Emplacement	Chen et al 2010
Loc. 13.1-1	China	NW Junggar	83.083	47.073	Tarbagatay Mts.	Granodiorite	Zr	SHRIMP	332.0	3.0 332±3	Emplacement	Chen et al 2010
Loc. 13.1-1	China	NW Junggar	83.283	46.987	Tarbagatay Mts.	Monzonitic granite	Zr	SHRIMP	332.0	3.0 332±3	Emplacement	Chen et al 2010
Loc. 13.2-1	Kazakhstan	Ordovician arc	76.963	49.649 fm	Bayanul-Akbastaa, Arkalyk	Tonalit (dyke)	Zr	U-Pb	494.0	2.0 494±2	Emplacement	?
Loc. 13.2-2	Kazakhstan	Cambrian arc	78.813	48.366 fm	Boschekul-Tarbagatay, SE, Zhimbas	Plagiogranite	Zr	U-Pb	488.0	2.0 488±2	Emplacement	?
Loc. 13.2-3	Kazakhstan	Central Kazakhstan	73.841	49.527	Topar Massif	Granodiorite	Zr	SHRIMP	314.1	5.1 314.1±5.1	Emplacement	Kröner et al 2008
Loc. 14-1	Kazakhstan	Central Kazakhstan	73.804	48.272	Bainazar Complex	Quartz-porphyr	Zr	SHRIMP	407.1	3.9 407.1±3.9	Emplacement	Kröner et al 2008
Loc. 14-2	Kazakhstan	Central Kazakhstan	75.009	46.982	Toqrau batholith	Granitoid	Zr	SHRIMP	381.8	3.1 381.8±3.1	Emplacement	Kröner et al 2008
Loc. 14-3	China	NW Junggar	84.354	46.897	Tarbagatay Mts.	PyroxeneDiorite	Zr	SHRIMP	333.0	2.0 333±2	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	84.684	46.944	Tarbagatay Mts.	Monzodiorite	Zr	SHRIMP	325.0	4.0 325±4	Emplacement	Han et al 2006
Loc. 14-3	China	NW Junggar	84.684	46.944	Tarbagatay Mts.	Monzodiorite	Zr	SHRIMP	325.0	4.0 325±4	Emplacement	Han et al 2006
Loc. 14-3	China	NW Junggar	86.304	47.024	Sauer Mts.	Adamellite	Zr	SHRIMP	324.0	6.0 324±6	Emplacement	Zhou et al 2008
Loc. 14-3	China	West Junggar	84.277	46.889 fm	Sawuer granites	Granite	Zr	LA-ICP-M	339.0	1.0 339±1	Emplacement	Choulet et al 2012
Loc. 14-3	China	Surrounding Junggar Basin	85.875	46.577 fm	Hongguleleng ophiolite	?	?	Sm-Nd	444.0	0.0 444	?	?
Loc. 14-3	China	Western Junggar	86.102	46.745 fm	Hebukesai	Basalt	Zr	LA-ICP-M	331.0	9.0 331±9	Eruption age	Geng et al 2011
Loc. 14-3	China	NW Junggar	85.519	46.711	Xiemisitai Mts.	Alkaline-granite	Zr	SHRIMP	417.0	4.0 417±4	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.519	46.711	Xiemisitai Mts.	Kfs-granite	Zr	SHRIMP	419.0	2.0 419±2	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.519	46.711	Xiemisitai Mts.	Diorite	Zr	SHRIMP	422.0	2.0 422±2	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.507	46.585	Xiemisitai Mts.	Kfsgranite	Zr	SHRIMP	420.0	4.0 420±4	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.486	46.579	Xiemisitai Mts.	Rhyolite–porphyry	Zr	SHRIMP	420.0	5.0 420±5	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.880	46.612	Xiemisitai Mts.	Rhyolite–porphyry	Zr	SHRIMP	414.0	5.0 414±5	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.812	46.738	Saier Mts.	Felsite	Zr	SHRIMP	405.0	4.0 405±4	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.894	46.766	Saier Mts.	Kfs-granite	Zr	SHRIMP	410.0	3.0 410±3	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.678	46.776	Saier Mts.	Kfs-granite	Zr	SHRIMP	417.0	5.0 417±5	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	85.174	46.786	Hebukesai Depression	Granite	Zr	SHRIMP	281.0	4.0 281±4	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Junggar	84.117	46.299	Wuerkashier Mts.	Kfs-granite	Zr	SHRIMP	302.0	2.0 302±2	Emplacement	Chen et al 2010
Loc. 14-3	China	NW Jung										

Loc. 14-3	China	Western Junggar	83.273	45.680	Shangdebulake pluton	Diorite	Zr	LA-ICP-M	485.0	2.0 485±2	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.388	45.796	Aershaté pluton	Granodiorite	Zr	LA-ICP-M	444.0	2.0 444±2	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.388	45.796	Aershaté pluton	Granodiorite	Zr	LA-ICP-M	439.0	3.0 439±3	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.264	45.673	Shangdebulake pluton	Diorite dyke	Zr	SIMS	318.0	4.0 318±4	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.343	45.695	Aketasi plutons	Granodiorite	Zr	SHRIMP	313.0	3.0 313±3	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.321	45.683	Aketasi plutons	Granodiorite	Zr	LA-ICP-M	308.0	2.0 308±2	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.280	45.613	Aketasi plutons	Granodiorite	Zr	LA-ICP-M	307.0	2.0 307±2	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.500	45.649	Zhanbeileta pluton	Granodiorite	Zr	LA-ICP-M	311.0	1.0 311±1	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.459	45.679	Jiangbule pluton	Kfs-granite	Zr	LA-ICP-M	309.0	2.0 309±2	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.521	45.750	Taergen pluton	Kfs-granite	Zr	LA-ICP-M	309.0	4.0 309±4	Emplacement	Xu et al 2012
Loc. 14-3	China	Western Junggar	83.543	45.765 cop	Taergen pluton	Kfs-granite	Zr	SHRIMP	296.0	3.0 296±3	Emplacement	Song et al 2011
Loc. 14-3	China	Western Junggar	83.886	45.630 cop	Miaoergou pluton	Kfs-granite	Zr	LA-ICP-M	305.0	3.0 305±3	Emplacement	Su et al 2006
Loc. 14-3	China	Western Junggar	83.217	45.389 cop	?	?	Zr	U-Pb	287.0	0.0 287	Emplacement	Wei 2010
Loc. 14-3	China	South Tianshan	86.276	46.724	Hongguleleng ophiolite	Anorthosite	Zr	SHRIMP	475.0	0.0 475	Formation	Jian et al 2005
Loc. 14-3	China	South Tianshan	86.276	46.724	Hongguleleng ophiolite	Gabbro	Zr	SHRIMP	409.0	0.0 409	Emplacement	Jian et al 2005
Loc. 14-3	China	South Tianshan	84.781	45.594 cop	Kelamayi ophiolite	Gabbro	Zr	SHRIMP	414.4	8.6 414.4±8.6	Emplacement	X. Xu et al 2006
Loc. 14-3	China	South Tianshan	84.781	45.594 cop	Kelamayi ophiolite	Gabbro	Zr	SHRIMP	332.0	14.0 332±14	Emplacement	X. Xu et al 2006
Loc. 14-3	China	Surrounding Junggar Basin	84.867	45.667	Karamay East	Granite	Zr	Pb-Pb	321.4	6.7 321.4±6.7	Emplacement	Kwon et al 1989
Loc. 14-3	China	Western Junggar	85.089	45.728	Karamay ophiolitic melange	Basalt	Zr	LA-ICP-M	395.0	3.0 395±3	Formation	Yang et al 2012
Loc. 14-3	China	Western Junggar	85.093	45.724	Karamay ophiolitic melange	Gabbro	Zr	LA-ICP-M	387.0	8.0 387±8	Formation	Yang et al 2012
Loc. 14-3	China	Western Junggar	84.823	45.702	Keramay batholith	Dioritic enclave	Zr	LA-ICP-M	306.0	5.0 306±5	Emplacement	Geng et al 2009
Loc. 14-3	China	Western Junggar	84.759	45.411	Akebastaw batholith	Kfs-granite	Zr	SHRIMP	305.0	4.0 305±4	Emplacement	Geng et al 2009
Loc. 14-3	China	Western Junggar	85.126	45.979 fm	Baogutu	Dacite	Zr	LA-ICP-M	336.0	3.0 336±3	Eruption age	Geng et al 2011
Loc. 14-3	China	Western Junggar	84.692	45.740 fm	Keramay plutons and dikes	Biotite granite	Zr	LA-ICP-M	312.0	3.0 312±3	Emplacement	Tang et al 2012a
Loc. 14-3	China	Western Junggar	84.692	45.740 fm	Keramay plutons and dikes	Dioritic dyke	Zr	LA-ICP-M	309.0	3.0 309±3	Emplacement	Tang et al 2012a
Loc. 14-3	China	Western Junggar	84.692	45.740 fm	Keramay plutons and dikes	Monzonitic enclave	Zr	LA-ICP-M	309.0	3.0 309±3	Emplacement	Tang et al 2012a
Loc. 14-3	China	Western Junggar	84.854	45.696 fm	Keramay plutons and dikes	Granit porphyry	Zr	SHRIMP	305.0	3.0 305±3	Emplacement	Tang et al 2012a
Loc. 14-3	China	Western Junggar	84.808	45.698 cop	?	?	Zr	U-Pb	296.0	0.0 296	Emplacement	Su et al 2006
Loc. 14-3	China	Western Junggar	85.286	45.982 cop	?	?	Zr	U-Pb	301.0	0.0 301	Emplacement	Su et al 2006
Loc. 14-3	China	NW Junggar	84.823	45.639 fm	Karamay	Dioritic dike	?	Ar-Ar	321.0	1.0 321±1	Emplacement ?	Yin et al 2010
Loc. 14-3	China	NW Junggar	84.738	45.692 fm	Karamay pluton	Granite	?	?	314.0	7.0 314±7	Emplacement ?	Han et al 2006
Loc. 14-3	China	NW Junggar	84.841	45.674	Kelamayi dyke	Diorite–porphyrite	Zr	SIMS	267.1	3.2 267.1±3.2	Formation	Zhang and Zou 2013
Loc. 14-3	China	N of Junggar	85.172	45.842 cop	Yeyagou valley	Tuff	Zr	LA-ICP-M	308.0	7.0 308±7	Eruption age	Zhang et al 2011
Loc. 14-3	China	N of Junggar	85.172	45.842 cop	Yeyagou valley	Diorite dike	Hbl	Ar-Ar	306.6	2.1 306.6±2.1	Emplacement	Zhang et al 2011
Loc. 14-3	China	West Junggar	84.933	45.833 cop	Bajiantan Region	Andesite	Zr	SHRIMP	335.2	2.9 335.2±2.9	Eruption age	Zhu et al 2013
Loc. 14-3	China	West Junggar	84.933	45.833 cop	Bajiantan Region	Tuff	Zr	SHRIMP	328.1	1.8 328.1±1.8	Eruption age	Zhu et al 2013
Loc. 14-3	China	West Junggar	84.933	45.833 cop	Bajiantan Region	Diorite dyke	Zr	SHRIMP	277.0	4.4 277.0±4.4	Emplacement	Zhu et al 2013
Loc. 14-3	China	West Junggar	84.933	45.833 cop	Bajiantan Region	Granite porphyry	Zr	SHRIMP	312.0	3.0 312±3	Emplacement	Zhu et al 2013
Loc. 14-3	China	West Junggar	84.933	45.833 cop	Bajiantan Region	Diorite	Zr	SHRIMP	310.7	3.7 310.7±3.7	Emplacement	Zhu et al 2013
Loc. 14-3	China	Western Junggar	84.367	45.542 fm	Hongshan	Andesite	Zr	LA-ICP-M	344.0	3.0 344±3	Eruption age	Geng et al 2011
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Tuff	Zr	SHRIMP	328.4	3.7 328.4±3.7	Eruption age	An and Zhu 2009
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Tuff	Zr	SHRIMP	342.6	4.3 342.6±4.3	Eruption age	An and Zhu 2009
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Tuff	Zr	SHRIMP	336.5	2.5 336.5±2.5	Eruption age	An and Zhu 2009
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Tuff	Zr	LA-ICP-M	332.1	3.0 332.1±3.0	Eruption age	Guo et al 2009
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Diorite	Zr	LA-ICP-M	313.9	2.6 313.9±2.6	Emplacement	Tang et al 2009
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Diorite	Zr	LA-ICP-M	309.9	1.9 309.9±1.9	Emplacement	Tang et al 2009
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Diorite	Zr	LA-ICP-M	314.9	1.7 314.9±1.7	Emplacement	Tang et al 2009
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Diorite	Zr	SIMS	313.0	2.2 313.0±2.2	Emplacement	Shen et al 2012
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Diorite	Zr	SIMS	312.3	2.2 312.3±2.2	Emplacement	Shen et al 2012
Loc. 14-3	China	Western Junggar	84.529	45.538 cop	Baogutu porphyry copper belt	Diorite	Bt	Ar-Ar	308.3	1.9 308.26±1.88	Emplacement	Shen et al 2012
Loc. 14-3	China	Western Junggar	84.529	45.538	Baogutu porphyry copper belt	Diorite	Bt	Ar-Ar	305.7	1.8 305.69±1.76	Emplacement	Shen et al 2012
Loc. 14-3	China	Western Junggar	84.529	45.538	Baogutu porphyry copper belt	Diorite	Mld	Re-Os	312.4	1.8 312.4±1.8	Emplacement	Shen et al 2012
Loc. 14-3	China	Western Junggar	84.453	45.499	Wudehe No. 2 pluton	Quartz dioritic porphyry	Zr	LA-ICP-M	315.0	4.0 315±4	Emplacement	Tang et al 2012b
Loc. 14-3	China	Western Junggar	84.541	45.474	Wudehe No. 2 pluton	Quartz dioritic porphyry	Zr	LA-ICP-M	311.0	4.0 311±4	Emplacement	Tang et al 2012b
Loc. 14-3	China	Western Junggar	84.440	45.398	East Kuogeshaye area	Dioritic porphyry dyke	Zr	LA-ICP-M	314.0	4.0 314±4	Emplacement	Tang et al 2012b
Loc. 14-3	China	Western Junggar	84.437	45.390	West Kuogeshaye area	Dioritic porphyry	Zr	LA-ICP-M	310.0	3.0 310±3	Emplacement	Tang et al 2012b
Loc. 14-3	China	South Tianshan	83.435	45.156	Tangbale ophiolite	Gabbro	Zr	SHRIMP	531.0	0.0 531	Emplacement	Jian et al 2005
Loc. 14-3	China	Surrounding Junggar Basin	83.300	45.067	Tangbale ophiolite	Pb-Pb	Pb-Pb	523.7	7.2 523.7±7.2	Emplacement	Kwon et al 1989	
Loc. 14-4	China	South Tianshan	90.090	45.065	Kalamaili ophiolite	Plagiogranite	Zr	U-Pb	373.0	0.0 373	Emplacement	Tang et al 2007
Loc. 14-4	China	Surrounding Junggar Basin	89.659	44.955 fm	Kelameili ophiolite	Plagiogranite	Zr	SHRIMP	497.0	12.0 497±12	Formation	Ping et al 2005
Loc. 14-4	China	Surrounding Junggar Basin	89.659	44.955 fm	Kelameili ophiolite	Plagiogranite	Zr	SHRIMP	403.0	9.0 403±9	Formation	Ping et al 2005
Loc. 14-4	China	Surrounding Junggar Basin	89.659	44.955 fm	Kelameili ophiolite	Gabbro	Zr	SHRIMP	336.0	4.0 336±4	Formation	Ping et al 2005
Loc. 14-4	China	Surrounding Junggar Basin	89.659	44.955 fm	Kelameili ophiolite	Gabbro	Zr	SHRIMP	342.0	3.0 342±3	Formation	Ping et al 2005
Loc. 14-4	China	Eastern Junggar	90.012	45.205 fm	Huangyangshan	Alkaline granite	Zr	LA-ICP-M	302.0	2.0 302±2	Emplacement	Su et al 2007
Loc. 14-4	China	Eastern Junggar	89.954	45.222 fm	Huangyangshan	Alkaline granite	Zr	LA-ICP-M	310.0	4.0 310±4	Emplacement	Su et al 2007
Loc. 14-4	China	Eastern Junggar	90.022	45.290 fm	Sabei	Alkaline granite	Zr	LA-ICP-M	306.0	3.0 306±3	Emplacement	Su et al 2007
Loc. 14-4	China	South Tianshan	90.254	45.868	Armantai ophiolite	Plagiogranite	Zr	SHRIMP	503.0	7.0 503±7	Emplacement	Xiao et al 2006
Loc. 14-4	China	Surrounding Junggar Basin	89.290	46.085 fm	Zhaheba ophiolite	Gabbro	Zr	SHRIMP	489.0	4.0 489±4	Formation	Jian et al 2003
Loc. 14-4	China	Surrounding Junggar Basin	89.290	46.085 fm	Zhaheba ophiolite	Anorthosite	Zr	SHRIMP	481.0	5.0 481±5	Formation	Jian et al 2003
Loc. 14-4	China	Surrounding Junggar Basin	89.290	46.085 fm	Zhaheba ophiolite	Gabbro	Zr	SHRIMP	406.0	4.0 406±4	Formation	Jian et al 2003
Loc. 14-5	China	South Tianshan	84.394	44.098	Sikeshu Pluton	Granodiorite	Zr	SHRIMP	315.9	2.5 315.9±2.5	Emplacement	B.F. Han et al 2010
Loc. 14-5	China	South Tianshan	84.720	44.109 cop	Bayingou ophiolite	Plagiogranite	Zr	SHRIMP	325.0	7.0 325±7	Formation	X.Y. Xu et al 2005 and 2006
Loc. 14-5	China	South Tianshan	84.720	44.109 cop	Bayingou ophiolite	Gabbro	Zr	LA-ICP-M	344.0	3.0 344±3	Formation	X.Y. Xu et al 2005 and 2006
Loc. 14-5	China	Tianshan	88.056	43.676	Bogda Shan	Gabbro porphyrite	Zr	SHRIMP	288.0	3.0 288±3	Emplacement	Shu et al 2011
Loc. 14-5	China	Tianshan	88.056	43.676	Bogda Shan	Rhyolite	Zr	LA-ICP-M	297.0	2.0 297±2	Eruption age	Shu et al 2011
Loc. 14-6	China	Huangshan–Jingerquan area	94.559	42.227	Huangshan	Gabbro	Zr	SHRIMP	269.0	2.0 269±2	Formation	Zhou et al 2004
Loc. 14-6	China	Huangshan–Jingerquan area	94.559	42.227	Huangshandong	Ore deposit	Oredeposit	Re-Os	282.0	20.0 282±20	Formation	Mao et al 2002
Loc. 14-6	China	Huangshan–Jingerquan area	94.577	42.278	Xiangshan	Homblende-gabbro	Zr	U-Pb	285.0	1.2 285±1.2	Formation	Qin et al 2003
Loc. 14-6	China	Huangshan–Jingerquan area	95.693	42.489	Hulu	Ore deposit	Oredeposit	Re-Os	283.0	13.0 283±13	Formation	Chen et al 2005
Loc. 14-6	China	Huangshan–Jingerquan area	95.893	42.533	Tulaergen	Ore deposit	Oredeposit	Re-Os	265.0	92.0 265±92	Formation	Sun 2009
Loc. 14-6	China	Huangshan–Jingerquan area	94.577	42.278	Xiangshan	Gabbro	Zr	SIMS	279.6	1.1 279.6±1.1	Formation	Han et al 2010
Loc. 18-1	China	NW Junggar	86.331	47.425	Sauer Mts.	Kfs-granite	Zr	SHRIMP	291.0	9.0 291±9	Emplacement	Zhou et al 2008
Loc. 18-1	Kazakhstan	Eastern Kazakhstan	86.532	47.630 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	294.0	0.0 294	Emplacement	Vladimirov et al 2001, Kuibida et al 2009
Loc. 18-2	China	NW Junggar	86.036	47.078	Sauer Mts.	Adamellite	Zr	SHRIMP	328.0	6.0 328±6	Emplacement	Zhou et al 2008
Loc. 18-2	China	NW Junggar	86.219	47.208	Sauer Mts.	Kfs-granite	Zr	SHRIMP	298.0	5.0 298±5	Emplacement	Zhou et al 2008
Loc. 18-2	China	NW Junggar	86.354	47.192	Sauer Mts.	Granite–porphyry	Zr	SHRIMP	303.0	8.0 303±8	Emplacement	Zhou et al 2008
Loc. 18-2	China	NW Junggar	85.565	47.188	Sauer Mts.	Kfs-granite	Zr	SHRIMP	321.0	5.0 321±5	Emplacement	Chen et al 2010
Loc. 18-2	China	NW Junggar	86.129	47.135	Tasite pluton	Adamellite	WR	Ar-Ar	313.6	3.2 313.6±3.2	Emplacement	Zhou et al 2008
Loc. 18-2	China	West Junggar	86.184	47.046 fm	Sawuer granites	Granite	Zr	LA-ICP-M	344.0	1.0 344±1	Emplacement	Choulet et al 2012
Loc. 18-2	China	West Junggar	86.333	47.217 fm	Xinjiang	Ivnerite	Zr	SHRIMP	302.6	7.6 302.6±7.6	Emplacement	Zhou et al 2007
Loc. 19-1	China	N of Junggar	89.342	47.006	Ertix gneiss complex	Unfoliated dike	Zr	SIMS	286.0	12.0 286±12	Emplacement	Briggs et al 2007
Loc. 19-1	China	N of Junggar	89.342	47.006	Ertix gneiss complex	Garnet amphibolite schist	Hbl	Ar-Ar	271.0	7.0 271±7	Deformation age	Briggs et al 2007
Loc. 19-1	China	N of Junggar	89.342	47.006	Ertix gneiss complex	Schist	Mnz	Th/Pb	278.0	9.0 278±9	Deformation age	Briggs et al 2007
Loc. 19-1	China	N of Junggar	8									

Loc. 19-2	Kazakhstan	Eastern Kazakhstan	85.312	48.573 fm	Irtysh Shear Zone	Granite	Zr	ID-TIMS	362.0	3.0 362±3	Emplacement	Kozakov et al 2011	
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.107	50.217 fm	Irtysh-Kurchum shear zone	High grade metamorphic	Mus	Ar-Ar	281.0	2.4 281±2.4	LP metamorphism	Travin et al 2001	Buslov et al 2003
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.107	50.217 fm	Irtysh-Kurchum shear zone	High grade metamorphic	Mus	Ar-Ar	282.0	2.0 282±2	LP metamorphism	Travin et al 2001	Buslov et al 2003
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.562	49.141 fm	Tastau igneous complex	Amphibole–biotite granite	Zr	ID-TIMS	242.0	20.0 242±20	Emplacement	Dokukina et al 2010	
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.815	49.594 fm	Irtysh shear zone	Granite	Zr	U-Pb	245.0	7.0 245±7	Emplacement	Dobretsov 2005 Izokh et al 2007	Prajno 2010
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.677	49.700 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	307.0	0.0 307	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.465	49.794 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	231.0	0.0 231	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.779	49.756 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	315.0	0.0 315	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.711	49.837 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	315.0	0.0 315	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.866	49.926 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	236.0	0.0 236	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	82.477	50.003 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	285.0	0.0 285	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	84.142	49.241	Kalba–Naryn batholith	Granite	Zr	LA-ICP-M	320.0	5.0 320±5	Emplacement	Glorie et al 2012	
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	83.494	49.242 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	253.0	0.0 253	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	83.494	49.242 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	274.0	0.0 274	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	83.982	49.396 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	278.0	0.0 278	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	83.514	49.584 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	324.0	0.0 324	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	84.125	49.213 fm	Irtysh-Kurchum shear zone	Epidote-amphibolite metamorphic	Bt	Ar-Ar	282.0	1.6 282±1.6	LP metamorphism	Travin et al 2001	Buslov et al 2003
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	84.125	49.213 fm	Irtysh-Kurchum shear zone	Epidote-amphibolite metamorphic	Kfs	Ar-Ar	275.0	1.0 275±1	LP metamorphism	Travin et al 2001	Buslov et al 2003
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	84.125	49.213 fm	Irtysh-Kurchum shear zone	Epidote-amphibolite metamorphic	Kfs	Ar-Ar	269.0	2.7 269±2.7	LP metamorphism	Travin et al 2001	Buslov et al 2003
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	84.225	49.239 fm	Irtysh-Kurchum shear zone	Epidote-amphibolite metamorphic	Bt	Ar-Ar	267.0	4.0 267±4	LP metamorphism	Travin et al 2001	Buslov et al 2003
Loc. 19-3	Kazakhstan	Eastern Kazakhstan	84.225	49.239 fm	Irtysh-Kurchum shear zone	Epidote-amphibolite metamorphic	Hbl	Ar-Ar	276.0	3.0 276±3	LP metamorphism	Travin et al 2001	Buslov et al 2003
Loc. 19-4	Kazakhstan	Eastern Kazakhstan	79.693	50.098	Semeitau igneous series	Trachyte	San	Ar-Ar	248.2	0.5 248.2±0.5	Extrusion	Lyons et al 2002	
Loc. 19-4	Kazakhstan	Eastern Kazakhstan	79.696	50.088	Semeitau igneous series	Layered vitrophyre	San	Ar-Ar	248.8	0.5 248.8±0.5	Extrusion	Lyons et al 2002	
Loc. 19-5	Russia	West Sayan region	81.808	49.358	Chara zone	Blueschist	Phg	Ar-Ar	449.3	1.0 449.3±1	HP metamorphism	Volkova ety al 2011	
Loc. 19-5	Russia	West Sayan region	81.808	49.358	Chara zone	Blueschist	Brs	Ar-Ar	450.0	2.7 450±2.7	HP metamorphism	Volkova ety al 2011	
Loc. 19-5	Russia	West Sayan region	81.821	49.358	Chara zone	Blueschist	Brs	Ar-Ar	449.2	5.0 449.2±5.5	HP metamorphism	Volkova ety al 2011	
Loc. 19-5	Russia	West Sayan region	81.821	49.358	Chara zone	Blueschist	Phg	Ar-Ar	449.8	5.0 449.8±5.2	HP metamorphism	Volkova ety al 2011	
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	82.322	50.753 fm	Irtysh shear zone	Granitoids	Zr	?	308.0	0.0 308	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	81.758	51.183 fm	Gilevo complex	Amphibole plagiogranite	Zr	SHRIMP	319.0	7.0 319±7	Emplacement	Kuibida et al 2013	
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	81.758	51.183 fm	Gilevo complex	Amphibole plagiogranite	Hbl	Ar-Ar	322.5	2.3 322.5±2.3	Emplacement	Kuibida et al 2013	
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	81.758	51.183 fm	Gilevo complex	Amphibole plagiogranite	Bt	Ar-Ar	321.8	2.3 321.8±2.3	Emplacement	Kuibida et al 2013	
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	81.891	51.150 fm	Gilevo complex	Biotite plagiogranite	Zr	ID-TIMS	318.0	0.8 318±0.8	Emplacement	Kuibida et al 2013	
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	82.854	50.417 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	336.0	0.0 336	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	82.511	50.564 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	369.0	0.0 369	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	83.047	50.551 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	361.0	0.0 361	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 20-1	Kazakhstan	Eastern Kazakhstan	83.579	50.487 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	379.0	0.0 379	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 20-2	Kazakhstan	Eastern Kazakhstan	82.866	49.926 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	236.0	0.0 236	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 20-2	Kazakhstan	Eastern Kazakhstan	82.775	50.150 fm	Irtysh shear zone	Granite	Zr	U-Pb	225.0	4.0 225±4	Emplacement	Dobretsov 2005, Izokh et al 2007	Prajno 2010
Loc. 20-2	Kazakhstan	Eastern Kazakhstan	84.074	50.119 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	197.0	0.0 197	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 20-2	Kazakhstan	Eastern Kazakhstan	82.148	50.480 fm	Irtysh Shear Zone	Synkinematic granite	Zr	ID-TIMS	226.0	9.0 226±9	Emplacement	Kozakov et al 2011	
Loc. 20-3	Russia	Southern Russia	83.076	55.073 fm	Novosibirsk	Granitoid	?	Ar-Ar	245.0	3.0 245±3	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.076	55.073 fm	Novosibirsk	Granitoid	?	Ar-Ar	244.0	2.0 244±2	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.106	55.321 fm	Novosibirsk	Granitoid	?	Ar-Ar	232.0	7.0 232±7	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	82.778	55.313 fm	Novosibirsk	Granitoid	?	Ar-Ar	236.0	3.0 236±3	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.299	55.409 fm	Novosibirsk	Granitoid	?	Ar-Ar	253.0	2.0 253±2	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.299	55.409 fm	Novosibirsk	Granitoid	Zr	U-Pb	255.0	6.0 255±6	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.725	55.623 fm	Novosibirsk	Granitoid	?	Ar-Ar	252.0	12.0 252±12	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.932	55.762 fm	Novosibirsk	Dyke	?	Ar-Ar	252.6	1.5 252.6±1.5	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.617	55.765 fm	Novosibirsk	Granitoid	?	Ar-Ar	252.0	2.0 252±2	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	83.617	55.765 fm	Novosibirsk	Granitoid	Zr	U-Pb	250.0	2.0 250±2	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	85.455	56.217 fm	Novosibirsk	Dyke	?	Ar-Ar	238.0	5.2 238±5.2	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 20-3	Russia	Southern Russia	85.195	56.502 fm	Novosibirsk	Dyke	?	Ar-Ar	241.0	2.7 241±2.7	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 21-1	Kazakhstan	Eastern Kazakhstan	83.457	50.593 fm	Irtysh shear zone	Granite	Zr	U-Pb	264.0	8.0 264±8	Emplacement	Dobretsov 2005, Izokh et al 2007	Prajno 2010
Loc. 21-1	Kazakhstan	Eastern Kazakhstan	83.954	50.918 fm	Irtysh shear zone	Granite	Zr	U-Pb	251.0	2.0 251±2	Emplacement	Dobretsov 2005, Izokh et al 2007	Prajno 2010
Loc. 21-1	Russia	Eastern Kazakhstan	83.297	51.191 fm	Irtysh shear zone	Granitoids	?	Ar-Ar	241.0	5.0 241±5	Emplacement	Dobretsov 2005, Izokh et al 2007	Prajno 2010
Loc. 21-2	Kazakhstan	Eastern Kazakhstan	84.615	50.174 fm	Irtysh shear zone	Granite	Zr	U-Pb	257.0	10.0 257±10	Emplacement	Dobretsov 2005, Izokh et al 2007	Prajno 2010
Loc. 21-2	Kazakhstan	Eastern Kazakhstan	84.821	49.978 fm	Irtysh shear zone	Granite	Zr	U-Pb	249.0	4.0 249±4	Emplacement	Dobretsov 2005, Izokh et al 2007	Prajno 2010
Loc. 21-2	Kazakhstan	Eastern Kazakhstan	84.708	49.995 fm	Irtysh shear zone	Granitoid	Zr	U-Pb	249.0	4.0 249±4	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 21-2	Kazakhstan	Eastern Kazakhstan	84.533	50.141 fm	Irtysh shear zone	Granitoid	Zr	U-Pb	257.0	10.0 257±10	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	85.333	50.297	Uimon zone	Granite	Zr	LA-ICP-M	417.0	7.0 417±7	Emplacement	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	85.370	50.157	Uimon zone	Pl-Q porphyritic dike	Zr	LA-ICP-M	412.0	22.0 412±22	Emplacement	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	85.721	50.411	Uimon zone	Gneiss	Zr	LA-ICP-M	505.0	13.0 505±13	?	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	85.739	50.361	Uimon zone	Granite	Zr	LA-ICP-M	420.0	6.0 420±6	Emplacement	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	86.043	50.148	Uimon zone	Diorite	Zr	LA-ICP-M	417.0	10.0 417±10	Emplacement	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	85.954	50.127	Uimon zone	Diorite	Zr	LA-ICP-M	470.0	18.0 470±18	Emplacement	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	86.535	50.208	Summit of Kulash-Tayga	Granite	Zr	LA-ICP-M	421.0	7.0 421±7	Emplacement	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	86.273	50.081	Uimon zone	Felsic tuff	Zr	LA-ICP-M	406.0	3.0 406±3	Eruption age	Glorie et al 2011b	
Loc. 21-2	Mongolia	Gorny-Altai–Altai-Mongolia	86.457	50.099	Uimon zone	Diorite	Zr	LA-ICP-M	453.0	7.0 453±7	Emplacement	Glorie et al 2011b	
Loc. 21-3	Kazakhstan	Eastern Kazakhstan	86.645	49.326 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	192.0	0.0 192	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 21-3	Kazakhstan	Eastern Kazakhstan	86.976	49.535 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	182.0	0.0 182	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 21-3	Russia	Southern Russia	87.288	49.628 fm		Dyke	?	Ar-Ar	245.0	0.7 245±0.7	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 21-3	Russia	Southern Russia	87.739	49.599 fm		Granitoid	Zr	U-Pb	240.0	12.0 240±12	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 21-3	Russia	Southern Russia	87.877	49.377 fm		Dyke	?	Ar-Ar	248.0	0.8 248±0.8	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 21-3	Mongolia	Gorny-Altai–Altai-Mongolia	87.948	49.913	South Chuya ridge	Granite	Zr	LA-ICP-M	370.0	19.0 370±19	Emplacement	Glorie et al 2011b	
Loc. 21-3	Kazakhstan	Eastern Kazakhstan	86.606	49.545 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	375.0	0.0 375	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 21-3	Mongolia	Gorny-Altai–Altai-Mongolia	87.950	49.913	South Chuya ridge	Diorite	Zr	LA-ICP-M	379.0	6.0 379±6	Emplacement	Glorie et al 2011b	
Loc. 21-3	Kazakhstan	Eastern Kazakhstan	86.482	49.538 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	389.0	0.0 389	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 21-3	Mongolia	Gorny-Altai–Altai-Mongolia	87.948	49.913	South Chuya ridge	Granite	Zr	LA-ICP-M	420.0	8.0 420±8	Emplacement	Glorie et al 2011b	
Loc. 21-4	Kazakhstan	Eastern Kazakhstan	86.851	48.585 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	267.0	0.0 267	Emplacement	Vladimirov et al 2001, Kuibida et al 2009	Glorie et al 2012
Loc. 21-4	China	South Tianshan	87.323	48.488	Jiadengyu Pluton	Gneissic granite	Zr	SHRIMP	479.0	3.0 479±3	Emplacement	Cai et al 2011b	
Loc. 21-4	China	South Tianshan	87.330	48.131	Kukukexi Pluton	Granodiorite	Zr	SHRIMP	439.2	5.5 439.2±5.5	Emplacement	Cai et al 2011b	
Loc. 21-4	China	N of Junggar	87.599	48.599	Hemu pluton	Peraluminous granites	Zr	LA-ICP-M	412.0	7.0 412±7	Emplacement	Cai et al 2011a	
Loc. 21-4	China	South Tianshan	86.741	48.386	Tiereketi Batholith	Biotite granite	Zr	SHRIMP	404.0	10.0 404±10	Emplacement	Cai et al 2011b	
Loc. 21-4	China	Altai Mountains	86.741	48.475 fm	Tielike	Granitoid	Zr	U-Pb	403.0	3.0 403±3	Emplacement	Tong et al	

Loc. 21-5	China	N of Junggar	87.717	47.809 fm	Tarlang Batholith	Gneissic, two-mica granites	Zr	LA-ICP-M	398.0	9.0 398±9	Emplacement	Yuan et al 2007
Loc. 21-5	China	N of Junggar	87.660	47.866 fm	Tarlang Batholith	Gneissic biotite granite	Zr	LA-ICP-M	382.0	5.0 382±5	Emplacement	Yuan et al 2007
Loc. 21-5	China	Altai Mountains	88.018	47.838 fm	Aweitan	Granite	Zr	Pb-Pb	380.0	1.0 380±1	Emplacement	Windley et al 2002
Loc. 21-5	Kazakhstan	Chinese Altai	87.627	47.789	Irtysh Shear Zone	Migmatite	Zr	ID-TIMS	373.0	2.0 373±2	Emplacement	Kozakov et al 2011
Loc. 21-5	China	Altai Mountains	88.652	47.772	Wuliqi	Granite	Zr	TIMS	371.0	1.0 371±1	Emplacement	Wang et al 2006
Loc. 21-5	Kazakhstan	Chinese Altai	87.627	47.789	Irtysh Shear Zone	Migmatite	Zr	ID-TIMS	362.0	5.0 362±5	Emplacement	Kozakov et al 2011
Loc. 21-6	China	Tianshan	90.337	46.794	Qinhe area	Micaschist	Bt	Ar-Ar	261.4	3.2 261.4±3.2	Deformation age (strike-slip)	Laurent-Charvet et al 2003
Loc. 21-6	China	Tianshan	90.337	46.794	Qinhe area	Micaschist	Mus	Ar-Ar	249.9	2.2 249.9±2.2	Deformation age (strike-slip)	Laurent-Charvet et al 2003
Loc. 21-6	China	Tianshan	89.666	46.974	Fuyun metamorphic complex	Orthogneiss	Bt	Ar-Ar	265.6	2.5 265.6±2.5	Deformation age (strike-slip)	Laurent-Charvet et al 2003
Loc. 21-6	China	Tianshan	89.355	47.153	Fuyun metamorphic complex	Cordierite-garnet-bearing orthogneiss	Bt	Ar-Ar	245.4	2.5 245.4±2.5	Deformation age (strike-slip)	Laurent-Charvet et al 2003
Loc. 21-6	China	Tianshan	89.311	47.122	Fuyun metamorphic complex	Garnet-bearing orthogneiss	Bts	Ar-Ar	244.0	2.6 244.0±2.6	Deformation age (strike-slip)	Laurent-Charvet et al 2003
Loc. 21-6	China	Tianshan	89.468	47.073	Fuyun metamorphic complex	Mylonitic amphibolite	Hbl	Ar-Ar	244.1	2.8 244.1±2.8	Deformation age (strike-slip)	Laurent-Charvet et al 2003
Loc. 21-6	China	Tianshan	89.436	47.094	Fuyun metamorphic complex	Mylonitic amphibolite	Hbl	Ar-Ar	249.1	3.8 249.1±3.8	Deformation age (strike-slip)	Laurent-Charvet et al 2003
Loc. 21-6	China	Altai Mountains	89.950	47.249	Altai No. 3 granitic pegmatite	Pegmatite	Zr	SHRIMP	220.0	9.0 220±9	Emplacement	Wang et al 2007
Loc. 21-6	China	Altai Mountains	89.950	47.249	Altai No. 3 granitic pegmatite	Pegmatite	Zr	SHRIMP	198.0	7.0 198±7	Emplacement	Wang et al 2007
Loc. 21-6	China	Altai Mountains	89.950	47.249	Altai No. 3 granitic pegmatite	Pegmatite	Zr	SHRIMP	213.0	6.0 213±6	Emplacement	Wang et al 2007
Loc. 21-6	China	Altai Mountains	89.950	47.249	Altai No. 3 granitic pegmatite	Pegmatite	Zr	SHRIMP	213.0	2.0 213±2	Emplacement	Wang et al 2007
Loc. 21-6	China	Altai Mountains	89.904	47.430 cop	Alaer granite pluton	Biotite granite	Zr	SHRIMP	212.0	2.0 212±2	Emplacement	Wang et al unpublished data
Loc. 21-6	China	Altai Mountains	89.904	47.430 cop	Alaer granite pluton	Biotite granite	Zr	SHRIMP	210.0	3.0 210±3	Emplacement	Wang et al unpublished data
Loc. 21-6	China	Altai Mountains	89.725	47.179 fm	Keketouhai	Rhyodacite	Zr	Pb-Pb	505.0	2.0 505±2	Emplacement	Windley et al 2002
Loc. 21-6	China	N of Junggar	89.239	47.486	Kuwei batholith	Peraluminous granites	Zr	LA-ICP-M	419.0	9.0 419±9	Emplacement	Cai et al 2011a
Loc. 21-6	China	Altai Mountains	89.383	47.298 fm	Kuerti	Granitoid	Zr	U-Pb	416.0	5.0 416±5	Emplacement	Wang et al 2006
Loc. 21-6	Kazakhstan	Eastern Kazakhstan	88.959	47.375 fm	Irtysh shear zone	Granitoids	Zr	U-Pb	416.0	0.0 416	Emplacement	Vladimirov et al 2001, Kuibida et al 2009
Loc. 21-6	China	Altai Mountains	89.786	47.415 fm	Keketouhai	Granitic orthogneiss	Zr	Pb-Pb	415.0	1.0 415±1	Emplacement	Windley et al 2002
Loc. 21-6	China	Altai Mountains	89.545	47.835 fm		Granitoid	Zr	Pb-Pb	412.0	12.0 412±12	Emplacement	Lou 1997
Loc. 21-6	China	Altai Mountains	89.771	47.048 fm	Keketouhai	Tonalitic gneiss	Zr	Pb-Pb	411.0	1.0 411±1	Emplacement	Windley et al 2002
Loc. 21-6	China	Altai Mountains	89.947	47.218	Keketouhai	Granite	Zr	SHRIMP	409.0	7.0 409±7	Emplacement	Wang et al 2006
Loc. 21-6	China	Altai Mountains	89.857	47.187	Keketouhai	Gabbro	Zr	SHRIMP	408.0	7.0 408±7	Emplacement	Wang et al 2006
Loc. 21-6	China	South Tianshan	89.221	47.483	Daqiao Batholith	Granodiorite	Zr	SHRIMP	404.0	4.0 404±4	Emplacement	Cai et al 2011b
Loc. 21-6	China	Altai Mountains	89.573	47.797 fm		Granitoid	Zr	Pb-Pb	404.0	9.0 404±9	Emplacement	Lou 1997
Loc. 21-6	China	Altai Mountains	89.509	47.852 fm		Granitoid	Zr	Pb-Pb	399.0	12.0 399±12	Emplacement	Lou 1997
Loc. 21-6	China	Altai Mountains	89.909	47.249	Keketouhai	Granite	Zr	SHRIMP	399.0	2.0 399±2	Emplacement	Wang et al 2006
Loc. 21-6	China	Altai Mountains	90.179	47.065	Qinggeli	Granite	Zr	U-Pb	399.0	0.0 399	Emplacement	Wang et al 1998
Loc. 21-6	China	South Tianshan	89.239	47.486	Wukuang Pluton	Two-mica gneissic granite	Zr	SHRIMP	381.0	5.0 381±5	Emplacement	Cai et al 2011b
Loc. 21-6	China	South Tianshan	89.424	47.405 cop	Kuerti ophiolite	Plagiogranite	Zr	SHRIMP	372.0	19.0 372±19	Emplacement	Zhang et al 2003
Loc. 21-6	China	N of Junggar	89.833	47.050 fm	Keketouhai area	Biotite-granodiorite	Zr	LA-ICP-M	359.0	5.0 359±5	Emplacement	Yuan et al 2007
Loc. 21-7	Mongolia	South Altai metamorphic belt	92.438	46.063 cop	Bodonchin	Symmetamorphic granite	Zr	U-Pb	371.0	2.0 371±2	Emplacement	Bibikova et al 1992; Kozakov et al 2002a
Loc. 21-7	Mongolia	South Altai metamorphic belt	92.438	46.063 cop	Bodonchin	Symmetamorphic granite	Zr	U-Pb	365.0	1.0 365±1	Emplacement	Kozakov et al 2011
Loc. 23-1	Russia	Southern Russia	84.881	54.244 fm		Granitoid	?	Ar-Ar	250.0	3.0 250±3	Emplacement	Bibikova et al 1992; Kozakov et al 2002a
Loc. 23-1	Russia	Southern Russia	84.881	54.244 fm		Granitoid	Zr	U-Pb	251.0	6.0 251±6	Emplacement	Dobretsov et al 2004
Loc. 23-1	Russia	Southern Russia	84.592	54.295 fm		Granitoid	?	Ar-Ar	258.0	5.0 258±5	Emplacement	Dobretsov et al 2004
Loc. 23-2	Russia	Southern Russia	85.372	53.252 fm		Granitoid	Zr	U-Pb	250.0	2.0 250±2	Emplacement	Dobretsov et al 2004
Loc. 23-2	Russia	Southern Russia	85.522	51.965 fm		Granitoid	?	Ar-Ar	246.0	2.0 246±2	Emplacement	Dobretsov et al 2004
Loc. 24-1	Mongolia	Gorniy-Altai–Altai-Mongolia	86.655	50.395	S. of Inya / Katun & Chuya river	Granodiorite	Zr	LA-ICP-M	411.0	5.0 411±5	Emplacement	Glorie et al 2011b
Loc. 24-1	Mongolia	Gorniy-Altai–Altai-Mongolia	86.667	50.401	Inyoushka village / Inya river	Diorite	Zr	LA-ICP-M	410.0	7.0 410±7	Emplacement	Glorie et al 2011b
Loc. 24-1	Mongolia	Gorniy-Altai–Altai-Mongolia	86.313	50.644	Chiket-aman pass	Granite	Zr	LA-ICP-M	382.0	4.0 382±4	Emplacement	Glorie et al 2011b
Loc. 24-1	Mongolia	Gorniy-Altai–Altai-Mongolia	86.712	50.414	S. of Inya / Chuya river	Granite	Zr	LA-ICP-M	380.0	6.0 380±6	Emplacement	Glorie et al 2011b
Loc. 24-1	Mongolia	Gorniy-Altai–Altai-Mongolia	86.616	50.312	Inegen river valley	Granite	Zr	LA-ICP-M	379.0	4.0 379±4	Emplacement	Glorie et al 2011b
Loc. 24-1	Mongolia	Gorniy-Altai–Altai-Mongolia	86.331	50.648	Chiket-aman pass	Granodiorite	Zr	LA-ICP-M	375.0	10.0 375±10	Emplacement	Glorie et al 2011b
Loc. 24-1	Mongolia	Gorniy-Altai–Altai-Mongolia	86.635	50.418		Granite	Zr	LA-ICP-M	376.0	14.0 376±14	Emplacement	Glorie et al 2011b
Loc. 24-2	Mongolia	Gorniy-Altai–Altai-Mongolia	85.717	51.071	Syominsky pass / Baraku village	Leucogranite	Zr	LA-ICP-M	392.0	8.0 392±8	Emplacement	Glorie et al 2011b
Loc. 24-2	Mongolia	Gorniy-Altai–Altai-Mongolia	85.639	51.233	Shebalino / Kumalyr village	Granite	Zr	LA-ICP-M	379.0	6.0 379±6	Emplacement	Glorie et al 2011b
Loc. 24-3	Russia	Gorniy Altai	84.754	51.788	Bulukhta Formation	Foliated sands and shales	Mica	Ar-Ar	257.0	6.0 257.5±2.5	Age of deformation	Buslov et al 2013
Loc. 24-3	Mongolia	Gorniy-Altai–Altai-Mongolia	84.757	51.940	Belokuriha massif (Chernovaya)	Granite	Zr	LA-ICP-M	250.0	6.0 250±6	Emplacement	Glorie et al 2011b
Loc. 24-3	Russia	Southern Russia	84.817	51.940 fm	Biysk	Granitoid	Zr	U-Pb	245.0	8.0 245±8	Emplacement	Dobretsov et al 2004
Loc. 24-3	Russia	Southern Russia	85.172	51.941 fm	Biysk	Granitoid	Zr	U-Pb	245.0	8.0 245±8	Emplacement	Dobretsov et al 2004
Loc. 24-3	Russia	Southern Russia	85.123	51.898 fm	Biysk	Granitoid	Zr	U-Pb	239.0	6.0 239±6	Emplacement	Dobretsov et al 2004
Loc. 24-3	Russia	Southern Russia	84.672	51.902 fm	Biysk	Granitoid	Zr	U-Pb	233.0	12.0 233±12	Emplacement	Dobretsov et al 2004
Loc. 25-1	Mongolia	Gorniy Altai and Kazakhstan	88.700	52.450	Teletsk-Bashkaus fault zone	Mylonitized granite	Mus	Ar-Ar (iso)	365.0	15.0 365±15	Deformation age (strike-slip)	Buslov et al 2001
Loc. 25-1	Mongolia	Gorniy Altai and Kazakhstan	88.800	52.433	Teletsk-Bashkaus fault zone	Migmatite	Mus	K-Ar	350.0	7.0 350±7	Deformation age (strike-slip)	Buslov et al 2001
Loc. 25-1	Mongolia	Gorniy Altai and Kazakhstan	88.800	52.383	Teletsk-Bashkaus fault zone	Mylonitized gabbro	Mus	K-Ar	331.0	7.0 331±7	Deformation age (strike-slip)	Buslov et al 2001
Loc. 25-2	Mongolia	Gorniy-Altai–Altai-Mongolia	88.040	50.586	Near Malyy Ulagan river	Gabbro	Zr	LA-ICP-M	529.0	13.0 529±13	Formation	Glorie et al 2011b
Loc. 25-2	Mongolia	Gorniy-Altai–Altai-Mongolia	88.040	50.586	Near Malyy Ulagan river	Felsic dike	Zr	LA-ICP-M	511.0	12.0 511±12	Emplacement	Glorie et al 2011b
Loc. 25-2	Mongolia	Gorniy-Altai–Altai-Mongolia	87.788	50.570	S. of Ulagan. / Saryatshuk river	Orthogneiss	Zr	LA-ICP-M	419.0	4.0 419±4	Emplacement	Glorie et al 2011b
Loc. 25-2	Russia	Gorniy Altai	88.021	50.578	Kurai fault-nappe	Muscovite-chlorite schist	Mica	Ar-Ar	346.0	4.2 346±4.2	Age of deformation	Buslov et al 2013
Loc. 25-2	Mongolia	Gorniy-Altai–Altai-Mongolia	88.182	50.541	E. of Saratan / Aturkol riv.	Xenolith (andesitic)	Zr	LA-ICP-M	245.0	5.0 245±5	Emplacement	Glorie et al 2011b
Loc. 25-2	Mongolia	Gorniy-Altai–Altai-Mongolia	88.182	50.541	E. of Saratan / Aturkol river	Granite	Zr	LA-ICP-M	225.0	5.0 225±5	Emplacement	Glorie et al 2011b
Loc. 25-3	Mongolia	Gorniy-Altai–Altai-Mongolia	88.743	50.124	West of Saratan	Gabbro	Zr	LA-ICP-M	528.0	10.0 528±10	Formation	Glorie et al 2011b
Loc. 25-3	Mongolia	Gorniy-Altai–Altai-Mongolia	88.892	50.147	N. of Kosh Agatsh / Kokorya valley	Finegrained qz-porphyry	Zr	LA-ICP-M	462.0	8.0 462±8	Emplacement	Glorie et al 2011b
Loc. 25-3	Mongolia	Gorniy-Altai–Altai-Mongolia	88.884	50.118	Kurai / Kokorya river	Blastomylonite	Zr	LA-ICP-M	410.0	0.0 410	?	Glorie et al 2011b
Loc. 25-3	Mongolia	Gorniy-Altai–Altai-Mongolia	88.886	50.118	Kurai / Kokorya river	Granite-gneiss	Zr	LA-ICP-M	397.0	5.0 397±5	?	Glorie et al 2011b
Loc. 25-3	Mongolia	Gorniy-Altai–Altai-Mongolia	88.890	50.150	N. of Kosh Agatsh / Kokorya valley	Felsic tuff	Zr	LA-ICP-M	384.0	9.0 384±9	Emplacement	Glorie et al 2011b
Loc. 25-3	Russia	Gorniy Altai	88.883	50.123	Kurai fault-nappe	Biotite-schist	Mica	Ar-Ar	319.0	7.0 319.1±7.7	Age of deformation	Buslov et al 2013
Loc. 25-3	Mongolia	Gorniy-Altai–Altai-Mongolia	88.604	50.156	Kurai ridge	Diorite	Zr	LA-ICP-M	295.0	6.0 295±6	Formation	Glorie et al 2011b
Loc. 25-4	Russia	Southern Russia	88.325	53.248 fm	Novokuznetsk	Granitoid	Zr	U-Pb	211.0	2.0 211±2	Emplacement	Dobretsov et al 2004
Loc. 25-4	Russia	Southern Russia	88.524	53.291 fm	Novokuznetsk	Granitoid	Zr	U-Pb	220.0	9.0 220±9	Emplacement	Dobretsov et al 2004
Loc. 25-4	Russia	Southern Russia	88.340	53.379 fm	Novokuznetsk	Granitoid	?	Ar-Ar	249.0	1.8 249±1.8	Emplacement	Dobretsov et al 2004
Loc. 25-5	Mongolia	Gorniy-Altai–Altai-Mongolia	85.854	51.921	Rybalka assif (Sausga village)	Granodiorite	Zr	LA-ICP-M	378.0	6.0 378±6	Emplacement	Glorie et al 2011b
Loc. 25-5	Russia	Gorniy Altai	86.238	51.881	Malaya Shemilovka River	Layered basalt	Mica	Ar-Ar	306.4	3.0 306.4±3.5	Age of deformation	Buslov et al 2013
Loc. 25-5	Russia	Southern Russia	85.633	51.979 fm	Biysk	Granitoid	Zr	U-Pb	244.0	5.0 244±5	Emplacement	Dobretsov et al 2004
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	88.414	50.141	Kurai ridge Meshtuenk complex	Tonalite	Zr	LA-ICP-M	540.0	8.0 540±8	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	88.414	50.141	Kurai ridge Meshtuenk complex	Tonalite	Zr	LA-ICP-M	534.0	8.0 534±8	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	88.514	50.105	Near Ortolyk village / Yanterek valle	Tonalite	Zr	LA-ICP-M	510.0	11.0 510±11	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	87.975	50.322	North of Kurai village	Bt-gneiss	Zr	LA-ICP-M	485.0	10.0 485±10	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	87.690	50.437	Aktash – Ulagan / Chibitka river	Ortho-gneiss	Zr	LA-ICP-M	422.0	7.0 422±7	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	88.358	50.110	Chagan Uzun suture	Alkali-gabbro	Zr	LA-ICP-M	415.0	10.0 415±10	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	87.656	50.503	Kubadru pass / Saryatshuk river	Diorite	Zr	LA-ICP-M	413.0	5.0 413±5	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	87.675	50.456	Aktash – Ulagan / Chibitka river	Ortho-gneiss	Zr	LA-ICP-M	410.0	13.0 410±13	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	87.821	50.159	Near Kurai village / Ak-tru river	Hbl-granite	Zr	LA-ICP-M	397.0	5.0 397±5	Emplacement	Glorie et al 2011b
Loc. 25-6	Mongolia	Gorniy-Altai–Altai-Mongolia	88.067	50.267	Ildugemsky pass	Granodiorite	Zr	LA-ICP-M				

Loc. 30-2	Mongolia	Western Siberia	87.838	51.407	fm	Teletsk-Bashkaus shear zone	Blastomylonite after gabbro	Bt	Ar-Ar	332.0	2.0 332±2	Deformation age (strike-slip)	Buslov et al 2003	
Loc. 33-1	Russia	Southern Siberia	101.811	52.140	cop	Slyudyanka terrane	Granulite	Zr	U-Pb	481.0	5.0 481±5	HPT metamorphism	Salnikova et al 1998	Gladkochub et al 2008
Loc. 37-1	Mongolia	Tuva	95.000	50.450	cop	Agardagh Tes-Chem ophiolite	Plagiogranite	Zr	Pb-Pb	569.6	1.7 569.6±1.7	Formation	Pfänder and Kröner 2004	
Loc. 37-1	Mongolia	Central Mongolia	95.392	50.402	fm	Tuvino-Mongolian Massif	Biotite granodiorite	Zr	ID-TIMS	521.0	12.0 521±12	Emplacement	Salnikova et al 2001	
Loc. 37-1	Mongolia	Central Mongolia	95.392	50.402	fm	Tuvino-Mongolian Massif	Tonalite	Zr	ID-TIMS	536.0	6.0 536±6	Emplacement	Salnikova et al 2001	
Loc. 37-1	Mongolia	Central Mongolia	95.392	50.402	fm	Tuvino-Mongolian Massif	Orthopyroxene quartz diorite	Zr	ID-TIMS	465.0	6.0 465±6	Emplacement	Salnikova et al 2001	
Loc. 37-1	Mongolia	Central Mongolia	95.392	50.402	fm	Tuvino-Mongolian Massif	Garnet-hypersthene trondhjemite	Zr	SHRIMP	494.0	11.0 494±11	Emplacement	Salnikova et al 2001	
Loc. 37-1	Mongolia	Central Mongolia	95.412	50.408	fm	Tuvino-Mongolian Massif	Orthopyroxene diorite	Zr	ID-TIMS	497.0	3.0 497±3	Emplacement	Salnikova et al 2001	
Loc. 37-1	Mongolia	Central Mongolia	95.412	50.408	fm	Tuvino-Mongolian Massif	Granite dyke	Zr	ID-TIMS	489.0	3.0 489±3	Emplacement	Salnikova et al 2001	
Loc. 37-1	Mongolia	Central Mongolia	95.412	50.408	fm	Tuvino-Mongolian Massif	Granosyenite	Zr	ID-TIMS	480.0	5.0 480±5	Emplacement	Salnikova et al 2001	
Loc. 37-1	Mongolia	Central Mongolia	95.412	50.408	fm	Tuvino-Mongolian Massif	Granosyenite	Zr	ID-TIMS	490.0	3.0 490±3	Emplacement	Salnikova et al 2001	
Loc. 38-1	Mongolia	Western Mongolia	92.427	49.603		Hanhöhiy (Hu Tsan Bulak)	Biotite-plagioclase peridotite	Bt	Ar-Ar	335.0	5.4 335±5.4	Cooling age	Izokh et al 2011	
Loc. 38-1	Mongolia	Western Mongolia	92.427	49.603		Hanhöhiy (Hu Tsan Bulak)	Biotite-plagioclase peridotite	Bt	Ar-Ar	342.4	5.7 342.4±5.7	Cooling age	Izokh et al 2011	
Loc. 38-1	Mongolia	Western Mongolia	92.816	49.476		Hanhöhiy (Bomin Hara Uula)	Teschenite	Bt	Ar-Ar	319.0	6.5 319±6.5	Cooling age	Izokh et al 2011	
Loc. 38-1	Mongolia	Western Mongolia	92.732	49.521	fm	Lake Zone	Gabbroonorites	Zr	U-Pb	511.0	0.0 511±7	Emplacement	Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 38-2	Mongolia	Western Mongolia	91.334	50.304		Shara Hadny (Tsagaan Shuvuut Ra	Picrodolerite	Zr	SHRIMP	406.5	7.1 406.5±7.1	Formation	Izokh et al 2011	
Loc. 38-3	Mongolia	Gorny Altai and Kazakhstan	89.917	51.200		Tokpak massif	Granite	Bt	K-Ar	354.0	6.0 354±6	Deformation age (strike-slip)	Buslov et al 2001	
Loc. 39-1	Russia	Southern Russia	88.271	50.575	fm		Granitoid	Zr	U-Pb	236.0	4.0 236±4	Emplacement	Dobretsov et al 2004	Dobretsov 2005
Loc. 39-1	Mongolia	Gorny-Altai–Altai-Mongolia	88.559	50.563		Karatesh pass	Gabbro-dolerite	Zr	LA-ICP-M	535.0	16.0 535±16	Emplacement	Glorie et al 2011b	
Loc. 39-1	Mongolia	Gorny-Altai–Altai-Mongolia	88.797	50.591		Yazula village	Gneiss	Zr	LA-ICP-M	501.0	15.0 501±15	?	Glorie et al 2011b	
Loc. 39-1	Mongolia	Gorny-Altai–Altai-Mongolia	88.820	50.606		Yazula village	Gabbro-diorite	Zr	LA-ICP-M	367.0	9.0 367±9	Formation	Glorie et al 2011b	
Loc. 39-2	Mongolia	Gorny Altai and Kazakhstan	88.983	51.333		Kurai metamorphic complex	Amphibolite	Hbl	K-Ar	374.0	8.0 374±8	Deformation age (strike-slip)	Buslov et al 2001	
Loc. 39-2	Russia	Siberian Altai Mountains	87.949	51.349		Katayatsk massif	Diorite	Zr	SHRIMP	460.1	6.5 460.1±6.5	Emplacement	De Grave et al 2013	
Loc. 39-2	Mongolia	Gorny-Altai–Altai-Mongolia	87.979	51.281		Ljukjil lake	Gneiss	Zr	LA-ICP-M	402.0	6.0 402±6	Emplacement	Glorie et al 2011b	
Loc. 39-3	Russia	West Sayan region	93.676	52.527	cop	Kurushiba belt	Blueschist	Phg	Ar-Ar	469.7	7.0 469.7±7.0	HP metamorphism	Volkova ety al 2011	
Loc. 39-3	Russia	West Sayan region	93.676	52.527	cop	Kurushiba belt	Blueschist	Gln	Ar-Ar	464.1	9.7 464.1±9.7	HP metamorphism	Volkova ety al 2011	
Loc. 40-1	Mongolia	W Mongolia	94.132	46.686	fm	Dariv Range	Plagiogranite	Zr	ID-TIMS	571.0	4.0 571±4	Emplacement	Khain et al 2003	Dijkstra et al 2006
Loc. 40-1	Mongolia	W Mongolia	94.132	46.686	fm	Dariv Range	Plagiogranite	Zr	ID-TIMS	573.0	6.0 573±6	Proto-arc spreading	Kozakov et al 2002b	Dijkstra et al 2006
Loc. 40-1	Mongolia	Western Mongolia	93.093	47.241		Hayrhan	Troctolite	Zr	SHRIMP	511.0	12.0 511±12	Formation	Izokh et al 2011	
Loc. 40-1	Mongolia	Western Mongolia	93.344	47.146	fm	Bumbat-Hairhan magmatic area	Biotite plagiogranites	Zr	SHRIMP	535.0	6.0 535±6	Emplacement	Rudnev et al 2012	
Loc. 40-1	Mongolia	Western Mongolia	93.337	47.196	fm	Darbi plagiogranite-porphry	Biotite–amphibole plagiogranite	Zr	SHRIMP	524.0	10.0 524±10	Emplacement	Rudnev et al 2012	
Loc. 40-1	Mongolia	Western Mongolia	93.326	47.169	fm	Bumbat-Hairhan pluton	Biotite–amphibole quartz diorite	Zr	ID-TIMS	507.0	4.5 507±4.5	Emplacement	Rudnev et al 2012	
Loc. 40-1	Mongolia	Western Mongolia	93.559	47.145	fm	Bumbat-Hairhan pluton	Biotite–amphibole plagiogranite	Zr	ID-TIMS	507.0	4.2 507±4.2	Emplacement	Rudnev et al 2012	
Loc. 40-1	Mongolia	Western Mongolia	93.123	47.429	fm	Lake Zone	Granitoids	?	?	511.0	0.0 511	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	93.167	47.370	fm	Lake Zone	Granitoids	?	?	505.0	0.0 505	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	92.921	47.341	fm	Lake Zone	Gabbroid	?	?	511.0	0.0 511	Formation	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	93.320	47.177	fm	Lake Zone	Granitoids	?	?	524.0	0.0 524	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	93.301	47.150	fm	Lake Zone	Granitoids	?	?	507.0	0.0 507	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	93.306	47.122	fm	Lake Zone	Granitoids	?	?	535.0	0.0 535	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	93.456	47.257	fm	Lake Zone	Plagiogranite	?	?	551.0	13.0 551±13	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	93.607	47.220	fm	Lake Zone	Plagiogranite	?	?	468.0	0.0 468	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-1	Mongolia	Western Mongolia	93.572	47.110	fm	Lake Zone	Granitoids	?	?	507.0	0.0 507	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-2	Mongolia	Western Mongolia	92.174	48.423	fm	Lake Zone	Granitoids	?	?	391.0	0.0 391	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-2	Mongolia	Western Mongolia	92.018	48.384	fm	Lake Zone	Granitoids	?	?	441.0	0.0 441	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-2	Mongolia	Western Mongolia	92.604	48.406	fm	Lake Zone	Ophiolite	?	?	546.0	0.0 546	Formation	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-2	Mongolia	Western Mongolia	92.827	48.519	fm	Lake Zone	Granitoids	?	?	449.0	0.0 449	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-2	Mongolia	Western Mongolia	92.827	48.519	fm	Lake Zone	Granitoids	?	?	514.0	0.0 514	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009, Yarmolyuk et al 2011	Rudnev et al 2012
Loc. 40-3	Mongolia	Western Mongolia	90.917	50.050		Üüreg Nuur	Picrite	Bt	Ar-Ar	512.4	6.1 512.4±6.1	Cooling age	Izokh et al 2011	
Loc. 40-3	Mongolia	Western Mongolia	90.957	50.077	cop	Mt. Budun	Picritic dike	Bt	Ar-Ar	513.9	6.2 513.9±6.2	Cooling age	Izokh et al 2010	
Loc. 40-3	Mongolia	Western Mongolia	90.957	50.077	cop	Mt. Budun	Monzodiorite	Bt	Ar-Ar	512.4	6.1 512.4±6.1	Cooling age	Izokh et al 2010	
Loc. 40-3	Mongolia	Gorny-Altai–Altai-Mongolia	89.238	50.632		Uzun Uyoq river	Granite	Zr	LA-ICP-M	413.0	8.0 413±8	Emplacement	Glorie et al 2011b	
Loc. 40-4	Mongolia	Western Mongolia	91.729	48.563		Mor't Uula	Gabbro	Bt	Ar-Ar	391.6	3.5 391.6±3.5	Cooling age	Izokh et al 2011	
Loc. 40-5	Mongolia	Western Mongolia	92.437	46.854		Tavtyn Hundiyn	Picrodolerite	Bt	Ar-Ar	359.2	3.2 359.2±3.2	Cooling age	Izokh et al 2011	
Loc. 40-6	Mongolia	Gorny-Altai–Altai-Mongolia	88.548	50.084		Near Ortoqly village / Bekon valley	Andesitic tuff	Zr	LA-ICP-M	512.0	7.0 512±7	Eruption age	Glorie et al 2011b	
Loc. 40-6	Mongolia	Gorny-Altai–Altai-Mongolia	88.294	50.058		Kyzyltshum / Korumkeshu river	Tonalite	Zr	LA-ICP-M	365.0	10.0 365±10	Emplacement	Glorie et al 2011b	
Loc. 40-7	Kazakhstan	Chinese Altai	92.547	46.137		Irtysy Shear Zone	Migmatite (garnet granite)	Mnz	ID-TIMS	259.0	1.0 259±1	Emplacement	Kozakov et al 2011	
Loc. 41-1	Mongolia	Western Mongolia	92.827	49.075	fm	Lake Zone	Granitoids	?	?	494.0	0.0 494	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 41-1	Mongolia	Western Mongolia	92.690	48.982	fm	Lake Zone	Ophiolite	?	?	570.0	0.0 570	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 41-2	Mongolia	Western Mongolia	93.263	48.320	fm	Lake Zone	Granitoids	?	?	459.0	0.0 459	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 41-2	Mongolia	Western Mongolia	93.409	48.298	fm	Lake Zone	Granitoids	?	?	531.0	0.0 531	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 41-2	Mongolia	Western Mongolia	93.414	48.253	fm	Lake Zone	Granitoids	?	?	529.0	0.0 529	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 41-3	Mongolia	Western Mongolia	93.758	49.035	fm	Lake Zone	Granitoids	?	?	495.0	0.0 495	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 41-3	Mongolia	Western Mongolia	93.176	48.953	fm	Lake Zone	Granitoids	?	?	465.0	0.0 465	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 41-3	Mongolia	Western Mongolia	93.810	48.997	fm	Lake Zone	Granitoids	?	?	519.0	0.0 519	Emplacement	Khain et al 1995, Kovalenko et al 2004, Rudnev et al 2009	Rudnev et al 2012
Loc. 42-1	Mongolia	W Mongolia	94.409	46.491	fm	Dariv Range	Garnet–hypersthene granulite	Zr	ID-TIMS	510.0	4.0 510±4	Lover intercept (metamorphic)	Kozakov et al 2002b	Dijkstra et al 2006
Loc. 42-1	Mongolia	W Mongolia	94.392	46.474	fm	Dariv Range	Gneissose bt–hbl tonalite	Zr	ID-TIMS	490.0	4.0 490±4	Lover intercept (emplacement)	Kozakov et al 2002b	Dijkstra et al 2006
Loc. 42-2	Mongolia	SW Mongolia	98.647	45.291		Zamtyn Range Complex	Granitic gneiss	Zr	SHRIMP	950.0	16.0 950±16	Emplacement	Kröner et al 2010	
Loc. 42-2	Mongolia	SW Mongolia	98.200	45.411		Lake Zone	Mylonitic orthogneiss	W-mica	Ar-Ar	573.0	15.0 573±15	Cooling age	Lehmann et al 2010	
Loc. 42-2	Mongolia	SW Mongolia	98.248	45.410		Tsakhir Uul unit	Eclogite	Mus	Ar-Ar	543.1	3.9 543.1±3.9	HP metamorphism	Stipska et al 2010	
Loc. 42-2	Mongolia	SW Mongolia	98.245	45.411		Lake Zone	Quartzitic micaschist	W-mica	Ar-Ar	540.0	15.0 540±15	Cooling age	Lehmann et al 2010	
Loc. 42-2	Mongolia	SW Mongolia	98.248	45.410		Tsakhir Uul unit	Quartzitic micaschist	Mus	Ar-Ar	536.9	2.7 536.9±2.7	HP metamorphism	Stipska et al 2010	
Loc. 42-2	Mongolia	Southern Mongolia	98.218	45.331		Burd Gol Granite Massif	Monazite-bearing granite	Mnz	CHIME	536.0	0.0 536	?	Hrdlickova et al 2008	
Loc. 42-2	Mongolia	Southern Mongolia	98.227	45.366		Burd Gol Granite Massif	Granite	Zr	LA-ICP-M	511.0	5.0 511±5	Emplacement	Hrdlickova et al 2008	
Loc. 42-2	Mongolia	Southern Mongolia	98.219	45.331		Burd Gol Granite Massif	Granite	Mnz	LA-ICP-M	506.0	6.0 506±6	Emplacement	Hrdlickova et al 2008	
Loc. 42-2	Mongolia	SW Mongolia	98.413	45.376		Zamtyn Range Complex	Felsic pyroclastic rock	Zr	SHRIMP	501.2	4.7 501.2±4.7	Emplacement	Kröner et al 2010	
Loc. 42-2	Mongolia	SW Mongolia	98.089	45.403		Zamtyn Range Complex	Granitic gneiss	Zr	SHRIMP	500.8	3.8 500.8±3.8	Emplacement	Kröner et al 2010	
Loc. 42-2	Mongolia	Southern Mongolia	98.218	45.331		Burd Gol Granite Massif	Monazite-bearing granite	Mnz	CHIME	497.0	0.0 497	?	Hrdlickova et al 2008	
Loc. 42-2	Mongolia	Southern Mongolia	98.241	45.327		Burd Gol Granite Massif	Pegmatite	Mus	Ar-Ar	485.1	3.2 485.1±3.2	Emplacement	Hrdlickova et al 2008	
Loc. 42-2	Mongolia	South Mongolia	97.978	45.448		Tseel block	Meta-granite	Zr	SHRIMP	397.0	3.2 397.0±3.2	Emplacement	Helo et al 2006	
Loc. 42-2	Mongolia	South Mongolia	97.978	45.448		Tseel block	Meta-granodiorite	Zr	SHRIMP	396.3	2.9 396.3±2.9	Emplacement	Helo et al 2006	
Loc. 42-2	Mongolia	SW Mongolia	98.155	45.467		Zamtyn Range Complex	Felsic volcanoclastic rock	Zr	SHRIMP</					

Loc. 43.1-1	China	ErgunaMassif	123.083	52.466	Lvlin	Alkalifeldspar granite	Zr	LA-ICP-M	187.0	2.0 187±2	Emplacement	Wu et al 2011
Loc. 43.1-1	China	ErgunaMassif	123.601	52.825	Xilinji	Monzogranite	Zr	LA-ICP-M	193.0	2.0 193±2	Emplacement	Wu et al 2011
Loc. 43.1-1	China	ErgunaMassif	126.140	52.531	Zhengqi	Granodiorite	Zr	LA-ICP-M	190.0	1.0 190±1	Emplacement	Wu et al 2011
Loc. 43.1-1	China	ErgunaMassif	125.644	52.045	Hanjia yuanzi	Diorite	Zr	LA-ICP-M	188.0	2.0 188±2	Emplacement	Sui et al 2007
Loc. 43.1-1	China	Xing'an Terrane	126.325	52.267	Huairou	Monzogranite	Zr	LA-ICP-M	236.0	1.0 236±1	Emplacement	Wu et al 2011
Loc. 43.1-1	China	Xing'an Terrane	126.213	52.006	Xinghua	Granodiorite	Zr	LA-ICP-M	178.0	1.0 178±1	Emplacement	Sui et al 2007
Loc. 43.1-1	China	Xing'an Terrane	125.794	51.879	Jiweidanzhi	Monzogranite	Zr	LA-ICP-M	181.0	2.0 181±2	Emplacement	Sui et al 2007
Loc. 43.1-1	China	Xing'an Terrane	126.273	51.821	Jiweidanzhi	Monzogranite	Zr	LA-ICP-M	176.0	2.0 176±2	Emplacement	Sui et al 2007
Loc. 43.1-1	China	ErgunaMassif	124.324	51.606	Xinlinzhen	Granodiorite	Zr	LA-ICP-M	132.0	3.0 132±3	Emplacement	Y.L. Zhang et al 2008
Loc. 43.1-1	China	ErgunaMassif	124.156	51.618	Xinlinzhen	Granodiorite	Zr	LA-ICP-M	131.0	3.0 131±3	Emplacement	Wu et al 2011
Loc. 43.1-1	Mongolia	South Altai metamorphic belt	96.470	45.231 cop	Tsogt	Metamorphic	Zr	U-Pb	385.0	5.0 385±5	Emplacement	Y.L. Zhang et al 2008
Loc. 43.1-2	China	ErgunaMassif	122.093	52.058	Mangui	Alkalifeldspar granite	Zr	LA-ICP-M	927.0	13.0 927±13	Emplacement	?
Loc. 43.1-2	China	ErgunaMassif	121.288	52.330	Qiqian	Monzogranite	Zr	LA-ICP-M	817.0	6.0 817±6	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	122.301	52.850	Mangui	Monzogranite	Zr	LA-ICP-M	482.0	4.0 482±4	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	122.508	52.990	Mangui	Syenogranite	Zr	LA-ICP-M	480.0	3.0 480±3	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.850	52.683	Guanhuzhan	Monzogranite	Zr	LA-ICP-M	464.0	4.0 464±4	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.826	51.669	Alongshan	Monzogranite	Zr	LA-ICP-M	456.0	7.0 456±7	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.778	52.634	Guanhuzhan	Diorite	Zr	LA-ICP-M	417.0	6.0 417±6	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.859	52.023	Guanhuzhannan	Monzogranite	Zr	LA-ICP-M	416.0	4.0 416±4	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	122.244	51.438	Niuerhe	Alkalifeldspar granite	Zr	LA-ICP-M	125.0	2.0 125±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.916	52.701	Fukeshan	Monzogranite	Zr	LA-ICP-M	189.0	2.0 189±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.889	52.637	Fukeshan	Monzogranite	Zr	LA-ICP-M	189.0	2.0 189±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.875	52.478	Fukeshan	Monzogranite	Zr	LA-ICP-M	194.0	7.0 194±7	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	122.065	52.127	Mangui	Syenogranite	Zr	LA-ICP-M	189.0	2.0 189±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	122.093	52.058	Mangui	Dolerite	Zr	LA-ICP-M	132.0	2.0 132±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.894	52.095	Mangui	Monzogranite	Zr	LA-ICP-M	187.0	3.0 187±3	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.504	51.344	Jinhezhen	Syenogranite	Zr	LA-ICP-M	203.0	4.0 203±4	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.510	51.364	Jinhezhen	Syenogranite	Zr	LA-ICP-M	197.0	4.0 197±4	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.578	51.626	Aluga	Monzogranite	Zr	LA-ICP-M	206.0	2.0 206±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.892	51.848	Awuni	Diorite	Zr	LA-ICP-M	208.0	1.0 208±1	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.330	52.424	Manguixi	Monzogranite	Zr	LA-ICP-M	195.0	2.0 195±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	121.083	52.509	Manguixi	Syenogranite	Zr	LA-ICP-M	220.0	3.0 220±3	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.716	52.894	Guanhuzhan	Felsicdyke	Zr	LA-ICP-M	249.0	4.0 249±4	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.961	52.561	Guanhuzhannan	Monzogranite	Zr	LA-ICP-M	201.0	1.0 201±1	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.666	51.332	Moerdagou	Monzogranite	Zr	LA-ICP-M	198.0	2.0 198±2	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.581	51.331	Kutankan	QuartzDiorite	Zr	LA-ICP-M	244.0	4.0 244±4	Emplacement	Wu et al 2011
Loc. 43.1-2	China	ErgunaMassif	120.368	51.319	Bajianfang	Monzogranite	Zr	LA-ICP-M	196.0	3.0 196±3	Emplacement	Wu et al 2011
Loc. 43.1-3	Mongolia	Central Mongolia	110.533	47.850 cop	Adaatsag ophiolite	Leucogabbro pegmatite	Zr	Pb-Pb	325.4	1.1 325.4±1.1	Formation	Tomurtogoo et al 2005
Loc. 43.1-3	Mongolia	NE Mongolia	111.624	48.841 fm	Ereendavaa metamorphic core complex	Pegmatite dyke	Zr	LA-ICP-M	285.0	6.0 285±6	Emplacement	Daoudene et al 2009
Loc. 43.1-3	Mongolia	NE Mongolia	111.707	48.829 fm	Ereendavaa metamorphic core complex	Orthogneiss	Zr	LA-ICP-M	282.0	7.0 282±7	Emplacement	Daoudene et al 2009
Loc. 43.1-3	Mongolia	NE Mongolia	111.736	48.835 fm	Ereendavaa metamorphic core complex	Orthogneiss	Zr	LA-ICP-M	283.0	5.0 283±5	Emplacement	Daoudene et al 2009
Loc. 43.1-4	Mongolia	Bayanteg Area	101.392	45.768	Taats River and Bayanteg Areas	Porphyritic granite	Zr	SHRIMP	579.0	7.0 579±7	Emplacement	Demoux et al 2009b
Loc. 43.1-4	Mongolia	Bayanteg Area	101.398	45.764 fm	Taats River and Bayanteg Areas	Granite	Zr	ID-TIMS	564.0	5.0 564±5	Emplacement	Demoux et al 2009b
Loc. 43.1-4	Mongolia	Bayanteg Area	101.390	45.755 fm	Taats River and Bayanteg Areas	Granitoid?	Zr	ID-TIMS	562.0	2.0 562±2	Emplacement	Demoux et al 2009b
Loc. 43.1-4	Mongolia	Bayanteg Area	101.386	45.778 fm	Taats River and Bayanteg Areas	Granite	Zr	ID-TIMS	547.0	4.0 547±4	Emplacement	Demoux et al 2009b
Loc. 43.1-4	Mongolia	Baydrag microcontinent	100.886	45.968	South volcanic belt	Porphyritic rhyolite	Zr	SHRIMP	544.0	7.0 544±7	Emplacement	Kröner et al 2011
Loc. 43.1-4	Mongolia	Bayanteg Area	101.334	45.639	Taats River and Bayanteg Areas	Peraluminous leucocratic granite vein	Zr	SHRIMP	537.0	6.0 537±6	Emplacement	Demoux et al 2009b
Loc. 43.1-4	Mongolia	Bayanteg Area	101.360	45.636 fm	Taats River and Bayanteg Areas	Granitoid?	Zr	ID-TIMS	532.0	9.0 532±9	Emplacement	Kozakov et al 2008
Loc. 43.1-4	Mongolia	Central Mongolia	99.127	46.747	Bayankhongor ophiolite	Syenite porphyry	Zr	SHRIMP	523.0	4.0 523±4	Formation	Jian et al 2010
Loc. 43.1-4	Mongolia	Bayanteg Area	101.381	45.679	Taats River and Bayanteg Areas	Granite vein	Zr	SHRIMP	519.0	9.0 519±9	Emplacement	Demoux et al 2009b
Loc. 43.1-4	Mongolia	North central Mongolia	99.739	46.364	Tsagaan Nuruu granite	Gabbro	Zr	SHRIMP	514.0	10.0 514±10	Emplacement	Jahn et al 2004
Loc. 43.1-4	Mongolia	Gobi-Altai	101.743	44.766	Bagu Bogd massif	Biotite-rich gneiss	Zr	SHRIMP	498.0	3.0 498±3	Emplacement	Demoux et al 2009a
Loc. 43.1-4	Mongolia	Gobi-Altai	101.743	44.766	Bagu Bogd massif	Granodioritic gneiss	Zr	SHRIMP	499.0	3.0 499±3	Emplacement	Demoux et al 2009a
Loc. 43.1-4	Mongolia	Gobi-Altai	101.745	44.770	Bagu Bogd massif	Leucogranitic gneiss	Zr	SHRIMP	501.0	4.0 501±4	Emplacement	Demoux et al 2009a
Loc. 43.1-4	Mongolia	Gobi-Altai	101.687	44.784	Bagu Bogd massif	Fine-grained leucogneiss	Zr	SHRIMP	502.0	6.0 502±6	Emplacement	Demoux et al 2009a
Loc. 43.1-5	Mongolia	Western Mongolia	96.978	46.581	Dzaraa Uula	Monzogabbro	Zr	SHRIMP	269.2	4.1 269.2±4.1	Formation	Izokh et al 2011
Loc. 43.1-5	Mongolia	Western Mongolia	96.978	46.581	Dzaraa Uula	Monzogabbro	Bt	Ar-Ar	262.1	2.4 262.1±2.4	Cooling age	Izokh et al 2011
Loc. 43.1-6	Russia	Southern Siberia	105.572	50.167	Buteel and Zagan metamorphic complex	Mylonitic meta-rhyolite	Zr	SHRIMP	553.6	2.9 553.6±2.9	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Mongolia	Northern Mongolia	105.976	49.454 fm	S of Darhan	Rhyolite	Zr	Pb-Pb	461.0	1.4 461.0±1.4	Eruption age	Kröner et al 2007
Loc. 43.1-6	Russia	Southern Siberia	105.538	50.260	Buteel and Zagan metamorphic complex	Orthogneiss	Zr	Pb-Pb	211.4	1.2 211.4±1.2	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Russia	Southern Siberia	105.636	50.203	Buteel and Zagan metamorphic complex	Granodioritic gneiss	Zr	Pb-Pb	230.7	1.2 230.7±1.2	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Russia	Southern Siberia	104.822	49.901	Buteel and Zagan metamorphic complex	Granodiorite	Zr	Pb-Pb	239.6	1.2 239.6±1.2	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Russia	Southern Siberia	104.822	49.901	Buteel and Zagan metamorphic complex	Granodiorite	Zr	SHRIMP	240.0	2.6 240±2.6	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Russia	Southern Siberia	104.886	49.970	Buteel and Zagan metamorphic complex	Mylonitic granite	Zr	Pb-Pb	229.2	1.2 229.2±1.2	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Russia	Southern Siberia	105.354	50.384	Buteel and Zagan metamorphic complex	Syenite	Zr	Pb-Pb	265.5	1.2 265.5±1.2	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Russia	Southern Siberia	105.095	50.303	Buteel and Zagan metamorphic complex	Meta-lava	Zr	Pb-Pb	265.0	1.2 265.0±1.2	Emplacement	Donskaya et al 2008
Loc. 43.1-6	Russia	Buteel-Nuur	106.611	50.495 fm	Kataev Formation	Granitoid	Zr	SHRIMP	223.4	5.0 223.4±5.0	Emplacement	Donskaya et al 2012
Loc. 43.1-6	Russia	Buteel-Nuur	106.566	50.412 fm	Kataev Formation	Rhyolite	Zr	SHRIMP	226.0	3.0 226±3	Eruption age	Donskaya et al 2012
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	108.151	50.413	Malo-Kunalei pluton	Peralkaline granite	Zr	ID-TIMS	219.1	0.6 219.1±0.6	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	109.951	52.358	Host rocks of the Khorinsk complex	Qtz monzonite	Zr	ID-TIMS	286.4	0.9 286.4±0.9	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	109.867	52.331	Host rocks of the Khorinsk complex	Syenite	Zr	ID-TIMS	280.5	0.8 280.5±0.8	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	109.704	52.371	Khorinsk complex	Syenite	Zr	ID-TIMS	278.4	1.2 278.4±1.2	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	109.686	52.200	Khorinsk complex	Peralkaline granite	Zr	ID-TIMS	278.5	0.8 278.5±0.8	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	109.869	52.441	Khorinsk complex	Peralkaline granite	Zr	ID-TIMS	273.8	0.9 273.8±0.9	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Western Transbaikalia	109.124	52.362 fm	Barguzin complex	Amphibole-biotite monzonites	Zr	SHRIMP	283.7	5.3 283.7±5.3	Emplacement	Tsygankov et al 2007
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	107.370	51.511	Ust-Khilok complex	Syenite	Zr	ID-TIMS	278.7	3.0 278.7±3.0	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	108.139	51.675	Bryansky complex	Syenite	Zr	ID-TIMS	278.8	1.3 278.8±1.3	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Western Transbaikalia	108.049	51.584 fm	Kunalei and Kudun complexes	Syenites, quartz syenites, and alkaline granites	Zr	U-Pb	279.0	0.0 279	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	106.981	51.209	Kharitonovo complex	Syenite	Zr	ID-TIMS	230.1	0.6 230.1±0.6	Emplacement	Reichow et al 2010
Loc. 43.1-6	Russia	Mongolian-Transbaikalian Belt	107.024	51.191	Kharitonovo complex	Peralkaline syenite	Zr	ID-TIMS	229.2	0.6 229.2±0.6	Emplacement	Reichow et al 2010
Loc. 43.1-7	Russia	Transbaikalia	111.160	53.402 cop	Oldynda structure	Felsic volcanic	Zr	SHRIMP	534.0	6.0 534±6	Eruption age	Gordienko et al 2010
Loc. 43.1-7	Russia	Transbaikalia	111.639	53.060 fm	Eravna volcanic-tectonic structure	Plagioclite	Zr	SHRIMP	529.0	3.0 529±3	Eruption age	Gordienko et al 2010
Loc. 43.1-7	Russia	Transbaikalia	111.160	53.402 cop	Oldynda structure	Felsic volcanic	Zr	SHRIMP	529.8	3.6 529.8±3.6	Eruption age	Gordienko et al 2010
Loc. 43.1-7	Russia	Transbaikalia	111.647	53.030 fm	Eravna volcanic-tectonic structure	Quartz porphyry	Zr	SHRIMP	516.0	5.0 516±5	Emplacement	Gordienko et al 2010
Loc. 43.1-7	Russia	Transbaikalia	111.676	52.986 fm	Eravna volcanic-tectonic structure	Mafic and intermediate volcanic rocks	?	Ar-Ar	310.0	310	Eruption age	Gordienko et al 2010
Loc. 43.1-7	Russia	Transbaikalia	111.607	52.999 fm	Eravna volcanic-tectonic structure	Felsite porphyry dikes	?	Ar-Ar	290.0	290	Emplacement	Gordienko et al 2010
Loc. 43.1-7	Russia	Transbaikalia	111.699	53.063 fm	Eravna volcanic-tectonic structure	Trachyrhyolite	?	U-Pb	290.0	290	Eruption age	Gordienko et al 2010
Loc. 43.1-7	Russia	Western Transbaikalia	113.420	54.180 fm	Barguzin complex	Foliated biotite granites	Zr	U-Pb	296.0	2.0 296±2	Emplacement	Rytisk et al 2002
Loc. 43.1-7	Russia	Western Transbaikalia	113.490	53.510 fm	Barguzin complex	Massive biotite granites	Zr	U-Pb	288.0	29.0 288±29	Emplacement	Rytisk et al 2002
Loc. 43.1-7	Russia	Transbaikalia	111.505	52.946 fm	Eravna volcanic-tectonic structure	Granodiorite	Zr	U-Pb</				

Loc. 43.2-2	Mongolia	Bayankhongor area	99.854	46.442	Bayankhongor ophiolite	Granite	Zr	Pb-Pb	539.0	1.0 539±1	Emplacement	Buchan et al 2002
Loc. 43.2-2	Mongolia	Central Mongolia	99.739	46.364	Bayankhongor ophiolite	Granite	Zr	SHRIMP	514.0	10.0 514±10	Emplacement	Jian et al 2010
Loc. 43.2-2	Mongolia	Bayankhongor area	99.656	46.522	Bayankhongor ophiolite	Rhyolite	Zr	Pb-Pb	474.0	8.0 474±8	Emplacement	Buchan et al 2002
Loc. 43.2-2	Mongolia	Central Mongolia	99.303	46.732	Bayankhongor ophiolite	Plagiophyric dike	Zr	SHRIMP	231.0	4.0 231±4	Formation	Jian et al 2010
Loc. 43.2-2	Mongolia	Central Mongolia	99.942	46.504	Bayankhongor ophiolite	Plagiophyric dike	Zr	SHRIMP	218.0	9.0 218±9	Emplacement	Jian et al 2010
Loc. 43.2-2	Mongolia	Central Mongolia	99.922	46.508	Bayankhongor ophiolite	Porphyritic gabbro	Zr	SHRIMP	237.0	2.0 237±2	Formation	Jian et al 2010
Loc. 43.2-2	Mongolia	Central Mongolia	100.584	46.110	Bayankhongor ophiolite	Diabase	Zr	SHRIMP	210.0	5.0 210±5	Formation	Jian et al 2010
Loc. 43.2-3	Mongolia	North central Mongolia	100.050	46.823	Hangay batholith	Monzogranite	Zr	U-Pb	252.0	3.0 252±3	Emplacement	Budnikov et al1999
Loc. 43.2-4	Mongolia	Northern Mongolia	106.572	48.009 fm	NE of Ulaanbaatar	Rhyolite	Zr	Pb-Pb	334.3	1.1 334.3±1.1	Eruption age	Kröner et al 2007
Loc. 43.2-4	Mongolia	Northern Mongolia	106.426	47.918 fm	W of Ulaanbaatar	Quartz porphyry	Zr	SHRIMP	493.0	5.0 493±5	Emplacement	Kröner et al 2007
Loc. 43.2-4	Mongolia	Northern Mongolia	106.732	47.363 fm	S of Ulaanbaatar	Rhyolite	Zr	Pb-Pb	348.8	1.1 348.8±1.1	Eruption age	Kröner et al 2007
Loc. 43.2-5	Mongolia	Northern Mongolia	106.388	48.723 fm	NE of Ulaanbaatar	Granite	Zr	Pb-Pb	458.5	1.0 458.5±1.0	Emplacement	Kröner et al 2007
Loc. 43.2-5	Mongolia	Northern Mongolia	106.510	48.687 fm	NE of Ulaanbaatar	Rhyolite	Zr	Pb-Pb	458.2	1.0 458.2±1.0	Eruption age	Kröner et al 2007
Loc. 43.2-5	Mongolia	Northern Mongolia	106.111	48.383 fm	NE of Ulaanbaatar	Granite dyke	Zr	Pb-Pb	435.8	1.0 435.8±1.0	Emplacement	Kröner et al 2007
Loc. 43.2-5	Mongolia	Northern Mongolia	106.313	48.163 fm	N of Ulaanbaatar	Felsic tuff	Zr	Pb-Pb	403.8	1.0 403.8±1.0	Eruption age	Kröner et al 2007
Loc. 43.2-5	Mongolia	Northern Mongolia	106.857	48.170 fm	N of Ulaanbaatar	Felsic metavolcanic	Zr	Pb-Pb	465.4	3.8 465.4±3.8	Eruption age	Kröner et al 2007
Loc. 43.2-5	Mongolia	Northern Mongolia	106.015	48.003 fm	N of Ulaanbaatar	Rhyolitic tuff	Zr	Pb-Pb	452.2	1.9 452.2±1.9	Eruption age	Kröner et al 2007
Loc. 43.2-6	Mongolia	Northern Mongolia	110.297	47.478 fm	Buteel Range	Porphyritic granite	Zr	SHRIMP	441.4	4.3 441.4±4.3	Emplacement	Kröner et al 2007
Loc. 43.2-6	Mongolia	Northern Mongolia	110.307	47.451 fm	Mörön area	Feldspar porphyry	Zr	SHRIMP	443.7	3.4 443.7±3.4	Emplacement	Kröner et al 2007
Loc. 43.2-7	Mongolia	Central Mongolia	105.972	46.211	Bagai-Gazryn Chuluu	Granite	Bt	Ar-Ar	209.4	3.2 209.4±3.2	Emplacement	Machowiak et al 2012
Loc. 43.2-7	Mongolia	Central Mongolia	106.091	46.227	Bagai-Gazryn Chuluu	Granite	Bt	Ar-Ar	211.9	4.0 211.9±4.0	Emplacement	Machowiak et al 2012
Loc. 43.2-7	Mongolia	Central Mongolia	106.013	46.216	Bagai-Gazryn Chuluu	Granite	Bt	Ar-Ar	201.0	3.6 201.0±3.6	Emplacement	Machowiak et al 2012
Loc. 43.2-8	Mongolia	Eastern Mongolia	104.877	46.653	Baya Unu	Porphryy	Bt	Ar-Ar	222.8	2.1 222.80±2.10	Crystallization	Lamb and Cox 1998
Loc. 43.2-8	Mongolia	Eastern Mongolia	104.877	46.653	Baya Unu	Porphryy	Bt	Ar-Ar	219.9	2.7 219.94±2.07	Crystallization	Lamb and Cox 1998
Loc. 43.2-8	Mongolia	Eastern Mongolia	104.844	46.642	Baya Unu	Biotite granodiorite	Plg	Ar-Ar	222.4	2.1 222.36±2.09	Crystallization	Lamb and Cox 1998
Loc. 43.3-1	Mongolia	SW Mongolia	97.795	44.879	Gobi-Altai Zone	Micaschist	Ar-Ar	738.0	20.0 738±20	Cooling age	Lehmann et al 2010	
Loc. 43.3-1	Mongolia	South Altai metamorphic belt	97.214	45.015 cop	Tsogt	Metamorphic	Zr	U-Pb	384.0	2.0 384±2	Metamorphic zircon	Kozakov et al 2011
Loc. 43.3-1	Mongolia	SW Mongolia	97.787	44.862	Neoproterozoic unit" (Rauzer and of	Tonalitic gneiss	Zr	SHRIMP	363.6	3.9 363.6±3.9	Emplacement	Kröner et al 2010
Loc. 43.3-1	Mongolia	South Mongolia	97.082	45.070	Tseel block	Granitoid gneisses	Zr	Pb-Pb	360.5	1.1 360.5±1.1	Emplacement	Helo et al 2006
Loc. 43.3-1	Mongolia	Southern Mongolia	97.067	45.088 fm	Tseel terrane	Granitic gneiss	Zr	Pb-Pb	360.5	1.1 360.5±1.1	Emplacement	Kröner et al 2007
Loc. 43.3-1	Mongolia	South Altai metamorphic belt	97.214	45.015 cop	Tsogt	Metamorphic	Zr	U-Pb	359.0	1.0 359±1	Metamorphic?	?
Loc. 43.3-1	Mongolia	South Mongolia	97.162	45.037	Tseel block	Meta-granodiorite	Zr	SHRIMP	289.2	2.3 289.2±2.3	Emplacement	Helo et al 2006
Loc. 43.3-1	Mongolia	Southern Mongolia	97.074	45.083 fm	Tseel terrane	Foliated granite	Zr	Pb-Pb	295.7	2.2 295.7±2.2	Emplacement	Kröner et al 2007
Loc. 43.3-1	Mongolia	Southern Mongolia	97.080	45.077 fm	Tseel terrane	Foliated diorite	Zr	Pb-Pb	289.2	2.3 289.2±2.3	Emplacement	Kröner et al 2007
Loc. 43.3-1	Mongolia	SW Mongolia	97.116	45.119	Neoproterozoic unit" (Rauzer and of	Foliated granite	Zr	SHRIMP	295.7	2.2 295.7±2.2	Emplacement	Kröner et al 2010
Loc. 43.3-1	Mongolia	SW Mongolia	97.162	45.037	Tseel block	Foliated diorite	Zr	SHRIMP	289.2	2.3 289.2±2.3	Emplacement	Kröner et al 2010
Loc. 43.3-1	Mongolia	SW Mongolia	97.772	44.826	Neoproterozoic unit" (Rauzer and of	Cataclastic granite	Zr	SHRIMP	286.8	1.8 286.8±1.8	Emplacement	Kröner et al 2010
Loc. 43.3-2	Mongolia	Southern Mongolia	98.050	45.100 cop	Khan Massif	Leucocratic orthogneiss	Zr	LA-ICP-M	363.0	3.0 363±3	Emplacement	Hrdlickova et al 2008
Loc. 43.3-2	Mongolia	Southern Mongolia	97.669	45.108 fm	Tseel terrane	Porphyritic rhyolite	Zr	Pb-Pb	397.0	3.2 397.0±3.2	Eruption age	Kröner et al 2007
Loc. 43.3-2	Mongolia	Southern Mongolia	97.661	45.099 fm	Tseel terrane	Rhyolite	Zr	Pb-Pb	396.3	2.9 396.3±2.9	Eruption age	Kröner et al 2007
Loc. 43.3-2	Mongolia	Southern Mongolia	98.078	45.175	Khan Khayrkhan Crystalline Comple	Leucocratic orthogneiss	Zr	LA-ICP-M	363.0	3.1 363±3.1	Emplacement	Hrdlickova et al 2008
Loc. 43.3-2	Mongolia	Western Mongolia	97.658	45.283	Javhlant	Melanogabbro	Zr	SHRIMP	332.1	4.1 332.1±4.1	Formation	Izokh et al 2011
Loc. 43.3-2	Mongolia	Western Mongolia	97.658	45.283	Javhlant	Melanogabbro	Bt	Ar-Ar	337.7	3.0 337.7±3	Cooling age	Izokh et al 2011
Loc. 43.3-2	Mongolia	SW Mongolia	97.959	45.277	Chandman Crystalline Complex	Granitoid	Zr	SHRIMP	340.9	2.5 340.9±2.5	Emplacement	Kröner et al 2010
Loc. 43.3-2	Mongolia	SW Mongolia	98.103	45.262	Chandman Crystalline Complex	Granitic gneiss	Zr	SHRIMP	350.4	1.7 350.4±1.7	Emplacement	Kröner et al 2010
Loc. 43.3-2	Mongolia	SW Mongolia	97.773	44.995	Granite intruding the Gichgene form	Granite	Zr	SHRIMP	279.6	3.9 279.6±3.9	Emplacement	Kröner et al 2010
Loc. 43.3-2	Mongolia	SW Mongolia	97.945	45.260	Gobi-Altai Zone	Micaschist	Ar-Ar	365.0	18.0 365±18	Cooling age	Lehmann et al 2010	
Loc. 43.3-2	Mongolia	SW Mongolia	97.819	45.295	Gobi-Altai Zone	Migmatite	W-mica	Ar-Ar	330.0	11.0 330±11	Cooling age	Lehmann et al 2010
Loc. 43.3-3	Mongolia	Eastern Gobi Altai	103.975	44.296	Shin Jinst	Red alkali granites	Kfs	Ar-Ar	231.5	10.0 231.54±10	Metamorphism	Lamb et al 2008
Loc. 43.3-4	China	ErgunaMassif	124.385	51.497	Tayuan	Gabbro	Zr	LA-ICP-M	322.0	5.0 322±5	Emplacement	Wu et al 2011
Loc. 43.3-4	China	ErgunaMassif	124.385	51.497	Tayuan	Monzogranite	Zr	LA-ICP-M	318.0	4.0 318±4	Emplacement	Wu et al 2011
Loc. 43.3-4	China	ErgunaMassif	123.167	50.683	Ganhe	Monzogranite	Zr	LA-ICP-M	304.0	5.0 304±5	Emplacement	Wu et al 2011
Loc. 43.3-4	China	ErgunaMassif	124.274	51.388	Tayuan	Monzogranite	Zr	LA-ICP-M	220.0	3.0 220±3	Emplacement	Wu et al 2011
Loc. 43.3-4	China	ErgunaMassif	121.600	50.067	Yitulihe	Granodiorite	Zr	LA-ICP-M	118.0	1.0 118±1	Emplacement	Wu et al 2011
Loc. 43.3-5	China	Surrounding Junggar Basin	90.581	46.011 fm	Qinghe ophiolite	Tholeiite	Zr	SHRIMP	352.0	4.0 352±4	Formation	Wu et al 2006
Loc. 43.3-6	Mongolia	Western Mongolia	95.884	45.240	Yaryn Had	Gabbro	Bt	Ar-Ar	330.0	2.9 330±2.9	Cooling age	Izokh et al 2011
Loc. 43.3-6	Mongolia	Western Mongolia	95.884	45.240	Yaryn Had	Gabbro	Zr	SHRIMP	316.2	3.2 316.2±3.2	Formation	Izokh et al 2011
Loc. 43.3-7	Mongolia	South Mongolia	100.763	44.444	Bayanleg locality	Meta-granite	Zr	Pb-Pb	433.5	1.1 433.5±1.1	Emplacement	Helo et al 2006
Loc. 43.3-7	Mongolia	South Mongolia	100.778	44.451	Bayanleg locality	Meta-granite	Zr	Pb-Pb	425.5	1.1 425.5±1.1	Emplacement	Helo et al 2006
Loc. 43.3-7	Mongolia	SW Mongolia	99.519	44.368	Indert formation	Felsic volcaniclastic rock	Zr	SHRIMP	357.8	3.2 357.8±3.2	Emplacement	Kröner et al 2010
Loc. 43.3-7	Mongolia	Trans-Altay Gobi	98.376	43.985 fm	Bayan Ayrag Massif	Bt-hbl-monzonite	Zr	LA-ICP-M	331.0	23.0 331±23	Emplacement	Hanzl et al 2008
Loc. 43.3-7	Mongolia	Trans-Altai and South Gobi	101.624	44.012	Trans-Altai	Granite cataclastic	Zr	SHRIMP	308.0	4.0 308 ± 4	Emplacement	Guy et al 2014
Loc. 43.3-7	Mongolia	Eastern Gobi Altai	99.356	44.494	Shin Jinst	Amphibolite gneiss	Hbl	Ar-Ar	295.0	13.0 295M±13	Metamorphism	Lamb et al 2008
Loc. 43.3-7	Mongolia	SW Mongolia	99.241	44.610	Early Devonian metamorphic unit" (I	Migmatite leucosome	Zr	SHRIMP	292.4	3.6 292.4±3.6	Emplacement	Kröner et al 2010
Loc. 43.3-7	Mongolia	SW Mongolia	99.238	44.630	Early Devonian metamorphic unit" (I	Leucocratic granite	Zr	SHRIMP	277.6	2.4 277.7±2.4	Emplacement	Kröner et al 2010
Loc. 43.3-7	Mongolia	Eastern Gobi Altai	99.349	44.440	Shin Jinst	Red alkali granites	Kfs	Ar-Ar	230.7	5.0 230.63±5	Emplacement (post collisional)	Lamb et al 2008
Loc. 43.3-8	Mongolia	Southern Mongolia	107.273	43.067 fm	Khan Bogd pluton	Trachydacite	Zr	ID-TIMS	330.0	1.0 330±1	Eruption age	Kovalenko et al 2006
Loc. 43.3-8	Mongolia	Southern Mongolia	107.128	43.037 cop	Han Bogd	Tonalite	Zr	ID-TIMS	330.6	7.0 330.6±7.0	Emplacement	Heumann et al 2012
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.524	42.942	Trans-Altai	Granite-porphry	Zr	SHRIMP	329.0	6.0 329 ± 6	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Southern Mongolia	107.128	43.037 cop	Han Bogd	Granodiorite	Zr	ID-TIMS	328.4	5.3 328.4±5.3	Emplacement	Heumann et al 2012
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.208	43.014	Trans-Altai	Granite	Zr	SHRIMP	319.0	5.0 319 ± 5	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	105.962	44.037	Trans-Altai	Quartz diorite	Zr	SHRIMP	319.0	6.0 319 ± 6	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.725	43.225	Trans-Altai	Granodiorite	Zr	SHRIMP	318.0	8.0 318 ± 8	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.829	43.399	Trans-Altai	Granite	Zr	SHRIMP	318.0	9.0 318 ± 9	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.607	42.656	Trans-Altai	Granite, cataclastic	Zr	SHRIMP	314.0	5.0 314 ± 5	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.461	43.589	Trans-Altai	Porphyritic quartz monzonite	Zr	SHRIMP	298.0	4.0 298 ± 4	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Southern Mongolia	107.128	43.037 cop	Han Bogd	Granodiorite	Zr	ID-TIMS	291.8	4.4 291.8±4.4	Emplacement	Heumann et al 2012
Loc. 43.3-8	Mongolia	Southern Mongolia	107.087	43.141 fm	Khan Bogd pluton	Alkali-granite	Zr	ID-TIMS	292.0	1.0 292±1	Emplacement	Kovalenko et al 2006
Loc. 43.3-8	Mongolia	Southern Mongolia	107.092	42.934 fm	Khan Bogd pluton	Granite	Zr	ID-TIMS	290.0	1.0 290±1	Emplacement	Kovalenko et al 2006
Loc. 43.3-8	Mongolia	Southern Mongolia	107.087	43.141 fm	Khan Bogd pluton	Biotite granite	Zr	ID-TIMS	290.0	1.0 290±1	Emplacement	Kovalenko et al 2006
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.873	42.788	Trans-Altai	Granodiorite, pegmatoid	Zr	SHRIMP	288.0	8.0 288 ± 8	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Trans-Altai and South Gobi	106.206	43.750	Trans-Altai	Granite-porphry	Zr	SHRIMP	286.0	5.0 286 ± 5	Emplacement	Guy et al 2014
Loc. 43.3-8	Mongolia	Southern Mongolia	107.028	42.956 fm	Khan Bogd pluton	Pegmatite	Pyt	Ar-Ar	285.0	7.0 285±7	Emplacement	Kovalenko et al 2006
Loc. 43.3-8	Mongolia	Southern Mongolia	107.092	42.934 fm	Khan Bogd pluton	Alkali granite	Hbl	Ar-Ar	283.0	4.0 283±4	Emplacement	Kovalenko et al 2006
Loc. 43.3-9	Mongolia	Eastern Mongolia	108.346	43.867	Tsagaan-Su	Relict porphyry (granitoid)	Src	Ar-Ar	364.9	3.5 364.92±3.5	Crystallization	Lamb and Cox 1998
Loc. 43.3-9	Mongolia	Southern Mongolia	107.827	44.074 fm	Bronze Fox intrusion	Biotite-hornblende granodiorite	Zr	ID-TIMS	333.6	0.6 333.6±0.6	Emplacement	Blight et al 2010a
Loc. 43.3-9	Mongolia	Southern Mongolia	108.075	44.317 fm	Narin Hudag	Monzonite	Zr	ID-TIMS	332.2	0.6 333.2±0.6	Emplacement	Blight et al 2010a
Loc. 43.3-9	Mongolia	Southern Mongolia	109.461	44.556 fm	Oyut Ulaan intrusion	Quartz monzonite	Zr	ID-TIMS	330.0	0.5 330.0±0.5	Emplacement	Blight et al 2010a
Loc. 43.3-9	Mongolia	Southern Mongolia	109.484	44.532 fm	Oyut Ulaan Volcanic Group	Andesite dyke	Zr	ID-TIMS	328.0	0.0 328	Emplacement	Blight et al 2010b
Loc. 43.3-9	Mongolia	Southern Mongolia</										

Loc. 44.1a-2	Mongolia	Southern Mongolia	109.582	44.057 fm	Tavan Har Block	Quartzo-feldspathic gneiss	Zr	LA-ICP-M	220.0	6.0 220±6	Emplacement	Taylor et al 2003
Loc. 44.1a-2	Mongolia	Southern Mongolia	111.216	44.142 cop	Urgun	Granodiorite	Zr	ID-TIMS	328.6	4.1 328.6±4.1	Emplacement	Heumann et al 2012
Loc. 44.1a-3	China	SongliaoTerrane	116.501	45.438	Dongfanghong	Monzogranite	Zr	SHRIMP	288.0	6.0 288±6	Emplacement	Miao 2003
Loc. 44.1a-3	China	SongliaoTerrane	117.459	45.675	Baolige	Monzogranite	Zr	SHRIMP	296.0	7.0 296±7	Emplacement	Miao 2003
Loc. 44.1a-3	China	NE China	118.000	45.750 cop	Xilinhot (Xinlin Gol) Complex	Quartz diorite-granodiorite	Zr	SHRIMP	313.0	5.0 313±5	Emplacement	Bao et al 2007
Loc. 44.1a-4	China	Xing'anTerrane	120.260	46.923	Niufentai	Monzogranite	Zr	LA-ICP-M	157.0	2.0 157±2	Emplacement	Wu et al 2011
Loc. 44.1a-4	China	Xing'anTerrane	120.056	47.133	Aershan	Monzogranite	Zr	LA-ICP-M	129.0	1.0 129±1	Emplacement	Wu et al 2011
Loc. 44.1a-4	China	SongliaoTerrane	122.209	47.374	Fengshou	Syenogranite	Zr	LA-ICP-M	120.0	2.0 120±2	Emplacement	Wu et al 2011
Loc. 44.1c-1	China	SongliaoTerrane	116.423	43.852	Xilingele	Gneiss	Zr	SHRIMP	437.0	3.0 437±3	Emplacement	Shi et al2003
Loc. 44.1c-1	China	SongliaoTerrane	116.187	43.873	Xilinhot	Alkalifeldspar granite	Zr	SHRIMP	276.0	2.0 276±2	Emplacement	Shi et al2004
Loc. 44.1c-1	China	NE China	116.000	43.750 cop	Xilinhot (Xinlin Gol) Complex	Quartz diorite-granodiorite	Zr	SHRIMP	323.0	5.0 323±5	Emplacement	Bao et al 2007
Loc. 44.1c-1	China	NE China	116.445	43.847	Xinlinhot Complex	Granite	Zr	SHRIMP	316.0	3.0 316±3	Emplacement	Shi et al 2003
Loc. 44.1c-1	China	NE China	116.445	43.847 cop	Xinlinhot Complex	Gabbro	Zr	SHRIMP	323.0	5.0 323±5	Formation	Miao et al 2007; unpublished data
Loc. 44.1c-1	China	SongliaoTerrane	117.108	43.978	Meilindaba	Quartzdiorite	Zr	LA-ICP-M	301.0	1.0 301±1	Emplacement	Wu et al 2011
Loc. 44.1c-1	China	SongliaoTerrane	117.149	43.950	Dusheyetu	Monzogranite	Zr	LA-ICP-M	321.0	1.0 321±1	Emplacement	Wu et al 2011
Loc. 44.1c-1	China	SongliaoTerrane	117.682	44.256	Mishengmiao	Quartzdiorite	Zr	LA-ICP-M	303.0	3.0 303±3	Emplacement	Wu et al 2011
Loc. 44.1c-1	China	SongliaoTerrane	117.859	44.163	Qianjinchang	Granodiorite	Zr	LA-ICP-M	274.0	1.0 274±1	Emplacement	Wu et al 2011
Loc. 44.1c-1	China	SongliaoTerrane	117.551	44.131	Daqihundi	Quartzdiorite	Zr	LA-ICP-M	325.0	3.0 325±3	Emplacement	J.F. Liu et al 2009
Loc. 44.2-1	Mongolia	Trans-Altay Gobi	97.169	43.250 fm	Zamyn Belgekh Pluton	Granodiorite	Zr	LA-ICP-M	326.0	33.0 326±33	Emplacement	Hanzl et al 2008
Loc. 44.2-1	Mongolia	Trans-Altay Gobi	97.678	43.227 fm	Zamyn Belgekh Pluton	Granodiorite	Zr	LA-ICP-M	309.0	9.0 309±9	Emplacement	Hanzl et al 2008
Loc. 44.2-1	Mongolia	SW Mongolia	97.565	43.182	Gobi-Tianshan Intrusive Complex	Granitic gneiss xenolith	Zr	SHRIMP	301.1	1.6 301.1±1.6	Emplacement	Kröner et al 2010
Loc. 44.2-1	Mongolia	SW Mongolia	97.564	43.239	Gobi-Tianshan Intrusive Complex	Granitic gneiss	Zr	Pb-Pb	301.9	1.2 301.9±1.2	Emplacement	Kröner et al 2010
Loc. 44.2-1	Mongolia	SW Mongolia	97.177	43.293	Gobi-Tianshan Intrusive Complex	Granodiorite	Zr	SHRIMP	299.9	1.6 299.9±1.6	Emplacement	Kröner et al 2010
Loc. 44.2-1	Mongolia	Southern Mongolia	97.833	43.333 cop	Gobi-Tianshan intrusive complex	Andesite dike	Zr	SIMS	295.0	5.0 295±5	Emplacement	Economos et al 2012
Loc. 44.2-1	Mongolia	Southern Mongolia	97.833	43.333 cop	Gobi-Tianshan intrusive complex	Granodiorite	Zr	SIMS	293.0	7.0 293±7	Emplacement	Economos et al 2012
Loc. 44.2-1	Mongolia	Southern Mongolia	97.833	43.333 cop	Gobi-Tianshan intrusive complex	Syenogranitic sheet	Zr	SIMS	292.0	13.0 292±13	Emplacement	Economos et al 2012
Loc. 44.2-1	Mongolia	Southern Mongolia	97.833	43.333 cop	Gobi-Tianshan intrusive complex	Rhyolite	Zr	SIMS	290.0	12.0 290±12	Emplacement	Economos et al 2012
Loc. 44.2-1	Mongolia	SW Mongolia	97.069	43.319	Gobi-Tianshan	Leucocratic gneiss	W-mica	Ar-Ar	228.0	7.0 228±7	Cooling age	Lehmann et al 2010
Loc. 44.2-2	Mongolia	Trans-Altai and South Gobi	102.878	43.139	Trans-Altai	Granite porphyry	Zr	SHRIMP	319.0	6.0 319 ± 6	Emplacement	Guy et al 2014
Loc. 44.2-3	China	Xing'anTerrane	121.208	48.058	Langfeng	Syenogranite	Zr	LA-ICP-M	337.0	8.0 337±8	Emplacement	Wu et al 2011
Loc. 44.2-3	China	Xing'anTerrane	121.188	47.976	Taerqi	Granodiorite	Zr	LA-ICP-M	320.0	1.0 320±1	Emplacement	Wu et al 2011
Loc. 44.2-3	China	Xing'anTerrane	121.233	47.960	Jianchazhan	Monzogranite	Zr	LA-ICP-M	313.0	3.0 313±3	Emplacement	Wu et al 2011
Loc. 44.2-3	China	Xing'anTerrane	121.839	48.089	Sanqilinchang	Quartzsyenite	Zr	LA-ICP-M	143.0	3.0 143±3	Emplacement	Wu et al 2011
Loc. 44.2-3	China	Xing'anTerrane	119.783	47.275	Yiershi	Syenogranite	Zr	SHRIMP	137.0	2.0 137±2	Emplacement	Wu et al 2003
Loc. 44.2-3	China	Xing'anTerrane	122.271	47.764	Xinlitun	Monzogranite	Zr	LA-ICP-M	133.0	1.0 133±1	Emplacement	Wu et al 2011
Loc. 44.2-3	China	Xing'anTerrane	121.341	47.877	Bashenghe	Syenogranite	Zr	LA-ICP-M	131.0	1.0 131±1	Emplacement	Wu et al 2011
Loc. 44.2-3	China	Xing'anTerrane	122.040	47.886	Jiqinhe	Quartzsyenite	Zr	LA-ICP-M	129.0	2.0 129±2	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	123.022	48.007	Jiusanzhan	Gneiss	Zr	LA-ICP-M	466.0	7.0 466±7	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	123.022	48.007	Jiusanzhan	Quartz Diorite	Zr	LA-ICP-M	446.0	5.0 446±5	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	121.795	48.788	Boketu	Diorite	Zr	LA-ICP-M	381.0	2.0 381±2	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	123.009	48.037	Jiusanzhan	Alkalifeldspar granite	Zr	LA-ICP-M	359.0	4.0 359±4	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	121.703	48.807	XingOan	Monzogranite	Zr	LA-ICP-M	309.0	4.0 309±4	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	122.772	48.003	Zhalantun	Syenogranite	Zr	LA-ICP-M	301.0	3.0 301±3	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	121.666	48.822	XingOan	Monzogranite	Zr	LA-ICP-M	267.0	3.0 267±3	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	121.703	48.807	Zhufeng	Diorite	Zr	LA-ICP-M	249.0	2.0 249±2	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	123.433	48.673	Sanchahe	Monzogranite	Zr	LA-ICP-M	179.0	1.0 179±1	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	123.459	48.261	Dechang	Two mica-monzogranite	Zr	LA-ICP-M	166.0	2.0 166±2	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	123.224	48.633	Sanchahe	Monzogranite	Zr	LA-ICP-M	157.0	2.0 157±2	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	122.095	48.613	Yalu	Monzogranite	Zr	LA-ICP-M	145.0	5.0 145±5	Emplacement	Wu et al 2011
Loc. 44.2-4	China	Xing'anTerrane	122.320	48.331	Lamashan	Monzogranite	Zr	LA-ICP-M	142.0	3.0 142±3	Emplacement	Wu et al 2011
Loc. 44.2-5	China	Xing'anTerrane	124.072	49.593	Yili	Granodiorite	Zr	LA-ICP-M	142.0	1.0 142±1	Emplacement	Wu et al 2011
Loc. 44.2-5	China	Xing'anTerrane	123.358	49.551	Dalaibin	Monzogranite	Zr	LA-ICP-M	139.0	1.0 139±1	Emplacement	Wu et al 2011
Loc. 44.2-5	China	Xing'anTerrane	123.768	49.242	Yilinongchang	Monzogranite	Zr	LA-ICP-M	131.0	1.0 131±1	Emplacement	Wu et al 2011
Loc. 44.2-5	China	Xing'anTerrane	123.759	49.177	Nuomin	Monzogranite	Zr	LA-ICP-M	130.0	1.0 130±1	Emplacement	Wu et al 2011
Loc. 44.2-5	China	Xing'anTerrane	123.762	49.561	Longtou	Monzogranite	Zr	LA-ICP-M	129.0	2.0 129±2	Emplacement	Wu et al 2011
Loc. 44.2-6	China	Xing'anTerrane	125.787	50.247	Duobaoshan	Granodiorite	Zr	LA-ICP-M	485.0	8.0 485±8	Emplacement	Ge et al 2007b
Loc. 44.2-6	China	Xing'anTerrane	126.469	50.235	Daheishan	Syenogranite	Zr	TIMS	292.0	4.0 292±4	Emplacement	Wu et al 2002
Loc. 44.2-6	China	Xing'anTerrane	125.413	49.909	Sizhanlinchang	Syenogranite	Zr	TIMS	282.0	4.0 282±4	Emplacement	Wu et al 2002
Loc. 44.2-6	China	Xing'anTerrane	125.414	49.975	Guguhe	Syenogranite	Zr	TIMS	264.0	5.0 264±5	Emplacement	Wu et al 2002
Loc. 44.2-6	China	Xing'anTerrane	125.731	50.381	Huaduoshan	Granodiorite	Zr	LA-ICP-M	176.0	3.0 176±3	Emplacement	Ge et al 2007b
Loc. 44.2-6	China	Xing'anTerrane	126.796	50.257		Granodiorite	Zr	SHRIMP	167.0	4.0 167±4	Emplacement	Miao et al 2004
Loc. 44.2-6	China	Xing'anTerrane	126.908	50.225		Granodiorite	Zr	SHRIMP	164.0	4.0 164±4	Emplacement	Miao 2003
Loc. 44.2-6	China	Xing'anTerrane	127.304	50.358	Shangmachang	Syenogranite	Zr	TIMS	106.0	2.0 106±2	Emplacement	Wu et al 2002
Loc. 44.3-1	China	NE China	113.696	43.643 cop	Baolidao suite	Quartz diorite	Zr	SHRIMP	490.0	8.0 490±8	Emplacement	Chen et al 2000
Loc. 44.3-1	China	NE China	113.497	43.480 cop	Sonidzhuoqi	Gabbro	Zr	SHRIMP	482.5	1.7 482.5±1.7	Emplacement	Jian et al 2008
Loc. 44.3-1	China	NE China	113.645	43.547 cop	Sonidzhuoqi	Tonalite	Zr	SHRIMP	481.3	2.2 481.3±2.2	Emplacement	Jian et al 2008
Loc. 44.3-1	China	NE China	113.497	43.480 cop	Sonidzhuoqi	Quartz diorite	Zr	SHRIMP	479.7	1.8 479.7±1.8	Emplacement	Jian et al 2008
Loc. 44.3-1	China	NE China	113.497	43.480 cop	Sonidzhuoqi	Tonalite	Zr	SHRIMP	471.3	2.4 471.3±2.4	Emplacement	Jian et al 2008
Loc. 44.3-1	China	NE China	113.645	43.547 cop	Sonidzhuoqi	Tonalite	Zr	SHRIMP	463.6	2.7 463.6±2.7	Emplacement	Jian et al 2008
Loc. 44.3-1	China	NE China	113.707	43.586 cop	Sonidzhuoqi	Granite	Zr	SHRIMP	427.3	2.2 427.3±2.2	Emplacement	Jian et al 2008
Loc. 44.3-1	China	NE China	113.707	43.586 cop	Sonidzhuoqi	Granite	Zr	SHRIMP	422.8	1.9 422.8±1.9	Emplacement	Jian et al 2008
Loc. 44.3-1	China	NE China	113.607	43.643 fm	Baolidao suite	Quartz diorite	Zr	SHRIMP	309.0	8.0 309±8	Emplacement	Chen et al 2000
Loc. 44.3-2	China	NE China	113.510	43.226 fm	Jiaoqier ophiolite	Blueschist	Gln	Ar-Ar	383.0	13.0 383±13	HP metamorphism	Xu et al 2001
Loc. 44.3-2	China	NE China	113.893	43.310 fm	Jiaoqier ophiolite	Plagiogranite	Zr	SHRIMP	343.0	7.0 343±7	Formation	Xu et al 2001
Loc. 44.3-3	China	NE China	116.465	43.730 fm	Jiaoqier Zone	Biotite gneiss	Zr	SHRIMP	437.0	3.0 437±3	Emplacement	Shi et al 2003
Loc. 44.3-3	China	SongliaoTerrane	117.830	44.271	Jinxing	Quartz diorite	Zr	LA-ICP-M	322.0	2.0 322±2	Emplacement	J.F. Liu et al 2009
Loc. 44.3-3	China	SongliaoTerrane	117.123	43.751	Telegute	Dioritcdyke	Zr	LA-ICP-M	287.0	3.0 287±3	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	117.123	43.751	Telegute	Monzogranite	Zr	LA-ICP-M	280.0	3.0 280±3	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	117.922	44.140	Qianjinchang	Granodiorite	Zr	LA-ICP-M	275.0	2.0 275±2	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	117.668	44.193	Daqingmuchang	Monzogranite	Zr	LA-ICP-M	274.0	4.0 274±4	Emplacement	Wu et al 2011
Loc. 44.3-3	China	NE China	116.347	43.722 fm	Jiaoqier Zone	Gabbro	Zr	SHRIMP	256.0	0.0 256	Formation	G H Shi unpubli data
Loc. 44.3-3	China	SongliaoTerrane	117.569	43.866	Zhuanshanzi	Monzogranite	Zr	LA-ICP-M	246.0	2.0 246±2	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	118.019	43.928	Xinlin	Granodiorite	Zr	LA-ICP-M	241.0	2.0 241±2	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	118.168	44.127	Chaoyanggou	Dioriticenclave	Zr	LA-ICP-M	150.0	4.0 150±4	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	118.168	44.127	Chaoyanggou	Monzogranite	Zr	LA-ICP-M	142.0	3.0 142±3	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	117.718	44.082	Beidashan	Granodiorite	Zr	LA-ICP-M	139.0	1.0 139±1	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	117.540	43.954	Beidashan	Syenogranite	Zr	LA-ICP-M	136.0	2.0 136±2	Emplacement	Wu et al 2011
Loc. 44.3-3	China	SongliaoTerrane	118.274	44.165	Chaoyanggou	Monzogranite	Zr	LA-ICP-M	132.0	1.0 132±1	Emplacement	Wu et al 2011
Loc. 44.3-4	China	NE China	116.045	44.508 fm	Hegenshan ophiolite	Mafic-ultramafic	WR	Sm-Nd	403.0	27.0 403±27	Formation	Bao et al1994
Loc. 44.3-4	China	Northern China	116.741	44.963	Xiaobaliang Massif	Gabbro	Zr	SHRIMP	354.0	7.0 354±7	Formation	Jian et al 2012
Loc. 44.3-4	China	Northern China	116.741	44.963	Xiaobaliang Massif	Plagiogranite	Zr	SHRIMP	333.0	4.0 333±4	Formation	Jian et al 2012
Loc												

Loc. 44.3-4	China	Northern China	116.120	44.640	Chaogenshan Massif	Gabbro	Zr	SHRIMP	125.0	2.0 125±2	Formation	Jian et al 2012	
Loc. 44.3-5	China	SongliaoTerrane	122.487	46.490	Yonghetun	Monzodiorite	Zr	LA-ICP-M	127.0	2.0 127±2	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	122.487	46.490	Yonghetun	Porphyrite	Zr	LA-ICP-M	128.0	3.0 128±3	Emplacement	Ge et al 2005b	
Loc. 44.3-5	China	SongliaoTerrane	122.125	46.495	Qingshan	Monzogranite	Zr	LA-ICP-M	138.0	3.0 138±3	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	122.125	46.495	Qingshan	Monzogranite	Zr	LA-ICP-M	133.0	3.0 133±3	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	121.482	46.226	Dashizhai	Monzogranite	Zr	LA-ICP-M	176.0	13.0 176±13	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	121.482	46.226	Dashizhai	Monzogranite	Zr	LA-ICP-M	182.0	3.0 182±3	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	121.482	46.226	Jingyang	Monzogranite	Zr	LA-ICP-M	176.0	4.0 176±4	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	121.256	46.602	Suolun	Alkalifeldspar granite	Zr	LA-ICP-M	126.0	2.0 126±2	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	121.240	46.412	Wulanmaodu	Syenogranite	Zr	LA-ICP-M	131.0	1.0 131±1	Emplacement	Wu et al 2011	
Loc. 44.3-5	China	SongliaoTerrane	121.092	46.354	Shabutai	Monzogranite	Zr	LA-ICP-M	129.0	2.0 129±2	Emplacement	Wu et al 2011	
Loc. 44.3-5	China	SongliaoTerrane	120.899	46.608	Jilasitai	Alkalifeldspar granite	Zr	LA-ICP-M	135.0	2.0 135±2	Emplacement	Wu et al 2011	
Loc. 44.3-5	China	SongliaoTerrane	122.209	47.374	Fengshou	Syenogranite	Zr	LA-ICP-M	120.0	2.0 120±2	Emplacement	Wu et al 2011	
Loc. 44.3-5	China	SongliaoTerrane	122.550	46.806	Caishichangxi	Monzogranite	Zr	LA-ICP-M	120.0	1.0 120±1	Emplacement	Wu et al 2011	
Loc. 44.3-5	China	SongliaoTerrane	122.141	46.912	Shenshan	Alkalifeldspar granite	Zr	LA-ICP-M	119.0	1.0 119±1	Emplacement	Wu et al 2011	
Loc. 44.3-5	China	SongliaoTerrane	121.220	46.683	Suolun	Alkalifeldspar granite	Zr	LA-ICP-M	134.0	2.0 134±2	Emplacement	Wu et al 2011	
Loc. 44.3-5	China	SongliaoTerrane	121.487	46.446	Chagan	Alkalifeldspar granite	Zr	LA-ICP-M	229.0	3.0 229±3	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-5	China	SongliaoTerrane	121.487	46.446	Chagan	Alkalifeldspar granite	Zr	LA-ICP-M	236.0	2.0 236±2	Emplacement	Ge et al 2005b	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.644	49.521	Daling	Gabbro	Zr	SHRIMP	483.0	4.0 483±4	Emplacement	Miao 2003	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	125.669	49.254		Gneiss	Zr	SHRIMP	333.0	7.0 333±7	Emplacement	Miao et al 2004	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.904	49.046	Zhengdasha	Granodiorite	Zr	LA-ICP-M	319.0	3.0 319±3	Emplacement	Y.L. Zhang et al 2010	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.904	49.048	Zhengdasha	Monzogranite	Zr	LA-ICP-M	316.0	4.0 316±4	Emplacement	Y.L. Zhang et al 2010	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.911	49.097	Zhengdasha	Monzogranite	Zr	LA-ICP-M	315.0	4.0 315±4	Emplacement	Y.L. Zhang et al 2010	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	124.473	48.580	Baoshan	Monzogranite	Zr	LA-ICP-M	301.0	2.0 301±2	Emplacement	Wu et al 2011	
Loc. 44.3-6	China	Xing'anTerrane	125.203	49.092	Xiaoshantun	Alkalifeldspar granite	Zr	TIMS	285.0	2.0 285±2	Emplacement	Wu et al 2002	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.833	49.556	Songmushan	Syenogranite	Zr	TIMS	260.0	3.0 260±3	Emplacement	Wu et al 2002	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.518	48.847	Molabushan	Monzogranite	Zr	LA-ICP-M	169.0	3.0 169±3	Emplacement	Y.L. Zhang et al 2010	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.373	49.033	Chaoyanglinchang	Monzogranite	Zr	LA-ICP-M	187.0	6.0 187±6	Emplacement	Y.L. Zhang et al 2010	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	126.362	48.939	Chaoyanglinchang	Monzogranite	Zr	LA-ICP-M	171.0	4.0 171±4	Emplacement	Y.L. Zhang et al 2010	Wu et al 2011
Loc. 44.3-6	China	Xing'anTerrane	124.457	48.529	Baoshan	Granodiorite	Zr	LA-ICP-M	160.0	1.0 160±1	Emplacement	Wu et al 2011	
Loc. 44.3-7	Mongolia	Trans-Altay Gobi	96.668	43.097 fm	Zamyn Belgekh Pluton	Granodiorite	Zr	LA-ICP-M	288.0	15.0 288±15	Emplacement	Hanzl et al 2008	
Loc. 44.3-7	Mongolia	Trans-Altay Gobi	97.073	43.107 fm	Zamyn Belgekh Pluton	Granodiorite	Zr	LA-ICP-M	299.0	8.0 299±8	Emplacement	Hanzl et al 2008	
Loc. 44.3-8	Mongolia	Southern Mongolia	104.038	41.843 fm	Yagan-Onch Hayrhan	Mylonite	Zr	LA-ICP-M	373.0	8.0 373±8	Emplacement	Taylor et al 2003	
Loc. 44.3-8	Mongolia	Southern Mongolia	104.049	41.839 fm	Yagan-Onch Hayrhan	Foliated gneiss	Zr	LA-ICP-M	368.0	14.0 368±14	Emplacement	Taylor et al 2003	
Loc. 44.3-8	Mongolia	Southern Mongolia	104.038	41.843 fm	Yagan-Onch Hayrhan	Augen gneiss	Zr	LA-ICP-M	367.0	9.0 367±9	Emplacement	Taylor et al 2003	
Loc. 44.3-8	Mongolia	Southern Mongolia	104.085	42.010 fm	Yagan-Onch Hayrhan	Augen gneiss	Zr	LA-ICP-M	248.0	6.0 248±6	Emplacement	Taylor et al 2003	
Loc. 44.3-8	Mongolia	Southern Mongolia	104.836	42.073 cop	Bulgan Uul	Intermediate dyke	Hbl	Ar-Ar	245.0	1.8 245±1.8	Intrusion	Heumann et al 2012	
Loc. 44.3-9	China	NE China	107.703	42.572	Sonlonker ophiolite	Gabbro	Zr	SHRIMP	297.0	2.0 297±2	Formation	Chen et al 2000, Xiao et al 2003	Jian et al 2008
Loc. 44.3-9	China	NE China	109.618	42.522	Sonlonker ophiolite	Gabbro	Zr	SHRIMP	295.0	3.0 295±3	Formation	Chen et al 2000, Xiao et al 2003	Jian et al 2008
Loc. 44.3-9	China	NE China	109.618	42.522	Sonlonker ophiolite	Diabase	Zr	SHRIMP	275.0	4.0 275±4	Formation	Chen et al 2000, Xiao et al 2003	Jian et al 2008
Loc. 44.3-9	China	NE China	109.618	42.522	Sonlonker ophiolite	Diabase	Zr	SHRIMP	252.0	3.0 252±3	Formation	Chen et al 2000, Xiao et al 2003	Jian et al 2008
Loc. 44.3-9	China	NE China	110.918	42.842	Sonlonker ophiolite	Low-Ti gabbro	Zr	SHRIMP	252.0	6.0 252±6	Formation	Chen et al 2000, Xiao et al 2003	Jian et al 2008
Loc. 44.3-9	China	NE China	108.846	42.415	Sonlonker ophiolite	Gabbro	Zr	SHRIMP	248.0	2.0 248±2	Formation	Chen et al 2000, Xiao et al 2003	Jian et al 2008

^a Coordinates provided by the authors if there is no indication next to the coordinates
 cop: center of pluton (unit, formation etc.). Coordinate taken from the center of the unit (that can be recognized in a general map) when coordinate is not provided ;
 fm: from map. Coordinate extracted from rectification of the maps provided;
 fl: list of the ages including coordinates provided.
 Note: Although it is too small for the resolution of this study, different coordinate systems used in different countries (e.g. China or Russia) can cause a deviation on the coordinates given (generally < 12 km).