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Supplemental Material

Table S1. Major features of the reported Jurassic magmatic rocks of the eastern Gangdese arc.

Table S2. Zircon U-Pb dating and trace element (in ppm) data of the studied Jurassic magmatic rocks of the eastern Gangdese arc.

Table S3. Zircon Hf isotopic data of the studied Jurassic magmatic rocks of the eastern Gangdese arc.

Table S4. Whole-rock chemical compositions of the studied Jurassic magmatic rocks of the eastern Gangdese arc.

Table S5. Whole-rock chemical compositions of the Mesozoic magmatic rocks of the eastern Gangdese arc.

Table S6. Whole-rock SiO₂ and Cu concentrations of the Late Cretaceous magmatic rocks of the eastern Gangdese arc.

Table S1 Major features of the reported Jurassic magmatic rocks of the eastern Gangdese arc

No.	Sample	Rock	Mineral assemblage	Protolith age (Ma)	Metamorphic age (Ma)	Latitude	longitude
1	TM07-50-2	Grt Ep gneiss	Pl, Qtz, Grt, Ms, Bt, Ep, Amp, Ilm	164.9+1.1	87.2+0.9	29°20'45.59"	94°19'13.01"
2	TM08-20-2	Grt amphibolite	Amp, Pl, Ep, Grt	165.8+7.2		29°20'51.61"	94°19'01.36"
3	TM08-20-4	Grt gneiss	Pl, Qtz, Grt, Amp, Ms, Ep,	163.2+4.2	82.7+2.9	29°21'03.42"	94°18'52.19"
4	T16-77-6	Grt-rich leucosome	Pl, Qtz, Grt, Amp, Bt, Ep	154.6+3.4	81.7+1.1	29°12'38.05"	94°05'59.70"
5	T16-77-11	Amphibolite	Amp, Pl, Ep, Bt, Qtz	157.0+1.4	85.1+0.9	29°12'38.05"	94°05'59.70"
6	T16-77-14	Grt Bt gneiss	Pl, Qtz, Bt, Amp, Grt, Ep	146.7+4.4	85.8+1.3	29°12'26.11"	94°07'35.69"
7	T16-91-32	Amp Bt gneiss	Pl, Bt, Amp, Qtz, Ep	163.2+9.0		29°32'52.07"	94°26'14.08"
8	T16-91-34	Amphibolite	Pl, Bt, Amp, Qtz, Ep	170.4+4.4		29°32'52.07"	94°26'14.08"
9	T17-1-25	Ep Amp gneiss	Pl, Ep, Amp, Bt, Qtz	161.2+2.1		29°12'21.92"	94°08'34.99"
10	T17-1-26	Ep Amp gneiss	Pl, Amp, Ep, Bt, Qtz	166.4+1.9	90.6+3.0	29°12'38.05"	94°5'59.70"
11	T17-1-34	Amphibolite	Pl, Amp, Ep, Bt, Qtz	144.8+1.3		29°12'23.78"	94°08'59.69"
12	D120301	Ep Bt gneiss	Pl, Qtz, Bt, Ep	174.7+9.4	87.8+1.1	29°14'25.07"	94°6'24.49"
13	D120302	Amphibolite	Amp, Pl, Ep, Bt	168.3+6.2	89.6+4.2	29°14'25.07"	94°6'24.49"
14	D120303	Bt gneiss	Pl, Qtz, Amp, Ep, Ilm	174.9+7.2	86.8+2.6	29°14'25.07"	94°6'24.49"
15	D350612	Ep amphibolite	Pl, Amp, Ep, Bt, Qtz, Chl	174.7+1.7		29°13'20.75"	94°11'31.23"
16	D350613	Ep Bt gneiss	Pl, Qtz, Bt, Amp, Ep, Grt, Ilm	159.9+1.6		29°13'08.31"	94°11'22.16"

Mineral abbreviations: Amp-amphibole, Bt-biotite, Chl-chlorite, Ep-epidote, Ilm-ilmenite, Qtz-quartz, and Pl-plagioclase.

Table S2 Zircon U-Pb dating and trace element (in ppm) data of the stuided Jurassic magmatic rocks of the eastern Gangdese arc

Sample	Domain	Th/U	Th	U	207Pb/206Pb Ratio	207Pb/206Pb Isigma	207Pb/235U Ratio	207Pb/235U Isigma	206Pb/238U Ratio	206Pb/238U Isigma	rho	207Pb/235U Age (Ma)	207Pb/235U Isigma	206Pb/238U Age (Ma)	206Pb/238U Isigma	208Pb/232Th Age (Ma)	208Pb/232Th Isigma	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
TM07-50-2	Metamorphic rim	0.009	3	399	0.05016	0.00175	0.09051	0.00344	0.01315	0.00013	0.2654	146.7	3.2	84.2	0.8	146.7	16.5	BD*	2.13	0.009	0.16	0.53	0.26	5.89	2.26	25	8.0	29.5	5.62	48	8
TM07-50-2	Metamorphic rim	0.010	2	246	0.04945	0.00190	0.09022	0.00372	0.01331	0.00017	0.3126	87.7	3.5	85.2	1.1	144.0	19.4	0.0046	1.72	0.003	0.12	0.48	0.21	4.59	1.76	21	7.3	31.6	6.82	65	12
TM07-50-2	Metamorphic rim	0.008	4	451	0.04759	0.00147	0.08739	0.00302	0.01341	0.00014	0.2948	85.1	2.8	85.9	0.9	134.3	19.0	0.0045	2.20	0.000	0.04	0.50	0.26	5.67	2.06	25	8.1	30.6	6.00	50	9
TM07-50-2	Metamorphic rim	0.007	2	284	0.04745	0.00195	0.08754	0.00397	0.01349	0.00017	0.2697	85.2	3.7	86.4	1.0	214.2	32.9	0.0010	1.38	0.004	0.17	0.40	0.25	4.21	1.64	20	7.1	30.9	6.75	64	12
TM07-50-2	Metamorphic rim	0.006	4	613	0.04837	0.00140	0.09034	0.00312	0.01360	0.00016	0.3470	87.8	2.9	87.1	1.0	199.6	31.3	0.0022	1.70	0.004	0.02	0.70	0.30	6.07	2.35	29	10.3	41.4	8.57	78	15
TM07-50-2	Metamorphic rim	0.020	2	106	0.04724	0.00335	0.08780	0.00649	0.01364	0.00021	0.2108	85.4	6.1	87.3	1.4	229.2	24.0	BD	2.22	0.007	0.21	0.72	0.33	6.08	2.30	26	7.7	27.5	4.98	41	6
TM07-50-2	Metamorphic rim	0.007	1	185	0.04600	0.00300	0.08645	0.00601	0.01369	0.00018	0.1885	84.2	5.6	87.7	1.1	282.4	61.5	BD	1.81	0.003	0.24	0.82	0.30	6.42	2.22	25	6.9	21.9	3.46	24	3
TM07-50-2	Metamorphic rim	0.008	2	200	0.05392	0.00264	0.10083	0.00516	0.01370	0.00018	0.2584	97.5	4.8	87.7	1.2	221.3	31.5	0.0035	2.04	0.005	0.18	1.00	0.34	8.44	2.94	31	8.5	26.7	4.33	29	4
TM07-50-2	Metamorphic rim	0.011	3	260	0.04657	0.00212	0.08784	0.00432	0.01371	0.00016	0.2368	85.5	4.0	87.8	1.0	155.5	17.6	BD	2.30	0.016	0.15	1.09	0.44	8.87	3.28	37	11.1	37.0	6.53	50	8
TM07-50-2	Metamorphic rim	0.009	3	314	0.04775	0.00184	0.08969	0.00381	0.01371	0.00015	0.2612	87.2	3.6	87.8	1.0	146.7	22.8	BD	2.38	0.008	0.11	0.55	0.23	5.58	2.25	24	7.1	24.0	4.15	32	5
TM07-50-2	Metamorphic rim	0.009	2	225	0.04707	0.00234	0.08850	0.00460	0.01375	0.00016	0.2279	86.1	4.3	88.1	1.0	178.2	20.4	0.0064	2.26	0.002	0.18	0.83	0.37	7.68	2.94	31	8.9	28.1	4.68	33	4
TM07-50-2	Metamorphic rim	0.008	2	279	0.04589	0.00175	0.08650	0.00361	0.01379	0.00015	0.2668	84.2	3.4	88.3	1.0	122.3	23.0	0.0011	2.18	0.006	0.20	0.79	0.33	6.62	2.35	25	7.3	24.6	4.23	32	5
TM07-50-2	Metamorphic rim	0.006	3	578	0.04769	0.00142	0.09149	0.00326	0.01392	0.00012	0.2508	88.9	3.0	89.1	0.8	118.9	15.7	BD	2.06	0.004	0.14	0.49	0.21	5.46	2.09	25	8.1	31.3	6.28	56	10
TM07-50-2	Metamorphic rim	0.004	3	616	0.04868	0.00127	0.09338	0.00290	0.01395	0.00016	0.3747	90.6	2.7	89.3	1.0	148.3	14.7	BD	1.97	0.000	0.05	0.53	0.27	5.42	2.26	26	8.4	31.4	6.09	51	9
TM07-50-2	Magmatic core	0.125	8	62	0.04760	0.00280	0.16144	0.01045	0.02465	0.00046	0.2909	152.0	9.1	157.0	2.9	170.4	13.1	0.0042	2.48	0.007	0.29	1.62	0.18	16.12	6.85	97	41	199	46	450	84
TM07-50-2	Magmatic core	0.183	17	96	0.05122	0.00273	0.17521	0.00949	0.02518	0.00032	0.2320	163.9	8.2	160.3	2.0	163.9	8.4	0.0067	5.08	0.020	0.62	2.69	0.42	29.20	12.6	186	82	408	93	903	174
TM07-50-2	Magmatic core	0.092	10	109	0.05184	0.00272	0.17804	0.00963	0.02527	0.00035	0.2539	166.4	8.3	160.9	2.2	157.6	10.9	BD	3.78	0.019	0.24	1.38	0.16	13.63	5.91	89	40	200	49	496	96
TM07-50-2	Magmatic core	0.206	14	67	0.05108	0.00308	0.17410	0.01038	0.02529	0.00038	0.2507	163.0	9.0	161.0	2.4	171.8	9.1	BD	4.15	0.026	0.58	2.62	0.45	27.82	11.57	168	74	358	82	816	147
TM07-50-2	Magmatic core	0.169	11	63	0.05065	0.00267	0.17630	0.00999	0.02550	0.00036	0.2489	164.9	8.6	162.3	2.3	153.6	9.4	BD	2.94	0.027	0.71	2.91	0.27	25.93	10.30	143	61	286	63	595	109
TM07-50-2	Magmatic core	0.330	34	102	0.04947	0.00221	0.17495	0.00842	0.02570	0.00032	0.2592	163.7	7.3	163.6	2.0	156.9	6.1	BD	5.11	0.030	0.60	3.20	0.55	30.00	12.51	177	74	342	75	700	126
TM07-50-2	Magmatic core	0.171	9	55	0.05012	0.00341	0.17443	0.01212	0.02571	0.00039	0.2177	163.3	10.5	163.6	2.4	171.1	10.9	0.0037	2.79	0.019	0.43	1.60	0.20	16.73	6.96	98	43	209	48	468	87
TM07-50-2	Magmatic core	0.145	7	49	0.05135	0.00374	0.17451	0.01192	0.02571	0.00046	0.2627	163.3	10.3	163.7	2.9	163.1	12.6	0.0015	2.83	0.013	0.40	1.56	0.29	15.79	7.22	101	45	220	51	494	95
TM07-50-2	Magmatic core	0.264	77	292	0.04843	0.00147	0.17184	0.00650	0.02576	0.00020	0.2089	161.0	5.6	163.9	1.3	162.7	4.2	0.0048	9.95	0.056	1.19	5.41	0.41	51.01	20.81	286	115	530	117	1086	186
TM07-50-2	Magmatic core	0.271	24	89	0.04869	0.00235	0.17239	0.00917	0.02577	0.00034	0.2461	161.5	7.9	164.0	2.1	165.7	7.0	0.0079	5.01	0.020	0.78	2.98	0.42	29.01	12.12	168	71	327	71	654	122
TM07-50-2	Magmatic core	0.167	14	84	0.05055	0.00270	0.17578	0.00881	0.02585	0.00038	0.2943	164.4	7.6	164.5	2.4	182.6	10.6	0.0030	2.94	0.021	0.37	1.61	0.12	14.62	6.44	92	39	191	44	422	78
TM07-50-2	Magmatic core	0.192	18	92	0.05008	0.00238	0.17686	0.00870	0.02592	0.00033	0.2559	165.4	7.5	164.9	2.0	168.6	9.3	BD	3.96	0.034	0.63	2.62	0.21	25.14	10.56	150	63	303	68	661	116
TM07-50-2	Magmatic core	0.268	18	69	0.05261	0.00241	0.18772	0.00960	0.02597	0.00034	0.2551	174.7	8.2	165.3	2.1	159.4	8.1	BD	4.30	0.024	0.91	3.44	0.43	30.67	12.37	175	74	349	78	738	137
TM07-50-2	Magmatic core	0.180	12	64	0.05028	0.00300	0.17911	0.01065	0.02611	0.00039	0.2517	167.3	9.2	166.2	2.5	193.4	11.2	0.0165	3.31	0.028	0.47	1.99	0.32	17.92	7.19	105	45	221	50	483	95
TM07-50-2	Magmatic core	0.228	30	130	0.04964	0.00213	0.17886	0.00841	0.02628	0.00032	0.2575	167.1	7.2	167.2	2.0	160.9	6.7	0.0000	5.76	0.037	0.89	3.47	0.32	36.90	14.86	208	86	402	88	823	147
TM07-50-2	Magmatic core	0.266	22	84	0.04985	0.00290	0.18025	0.01107	0.02630	0.00033	0.2062	168.3	9.5	167.4	2.1	161.8	7.9	0.0000	5.00	0.034	0.81	3.66	0.39	35.37	14.17	198	83	386	84	783	145
TM07-50-2	Magmatic core	0.132	9	67	0.05273	0.00275	0.18780	0.00976	0.02649	0.00040	0.2926	174.8	8.3	168.5	2.5	164.3	11.7	0.0087	3.06	0.018	0.50	2.34	0.20	22.32	9.27	132	59	292	67	652	128
TM07-50-2	Magmatic core	0.160	8	50	0.05292	0.00341	0.19382	0.01280	0.02678	0.00039	0.2213	179.9	10.9	170.4	2.5	170.7	12.4	BD	2.55	0.015	0.43	1.62	0.20	15.54	6.69	94	41	197	44	422	81
TM07-50-2	Magmatic core	0.204	14	70	0.04841	0.00328	0.17891	0.01253	0.02716	0.00037	0.1955	167.1	10.8	172.8	2.3	189.3	10.5	BD	4.10	0.013	0.66	2.75	0.38	26.46	10.45	148	63	300	67	632	118
TM07-50-2	Magmatic core	0.167	14	85	0.05091	0.00266	0.19055	0.00980	0.02762	0.00035	0.2486	177.1	8.4	175.6	2.2	180.4	10.3	0.0021	3.56	0.025	0.50	1.86	0.16	17.16	7.42	109	47	228	52	493	91
TM08-20-2	Magmatic core	0.413	50	121	0.1208	0.0145	0.3430	0.0425	0.0217	0.0010	0.3823	299	32.1	138	6.47	188	18.4	BD	5.72	0.070	0.66	2.22	0.49	14.5	5.44	73.8	31.6	155	40.6	419	89
TM08-20-2	Magmatic core	0.545	41	76	0.1556	0.0210	0.4549	0.0569	0.0228	0.0012	0.4040	381	39.7	145	7.26	260	33.7	BD	6.28	BD	BD	2.02	0.32	14.5	4.57	63.4	26.2	119	29.6	288	58
TM08-20-2	Magmatic core	0.574	34	58	0.1792	0.0224	0.5560	0.0425	0.0243	0.0018	0.9604	449	27.7	155	11.2	280	35.5	0.0798	4.96	BD	BD	0.56	0.24	7.29	2.85	37.6	16.2	78.6	20.5	205	43
TM08-20-2	Magmatic core	0.578	28	48	0.1981	0.0306	0.5440	0.0685	0.0245	0.0014	0.4554	441	45.1	156	8.85	254	25.0	0.1432	4.01	0.049	0.61	1.14	0.26	9.40	3.35	47.5	17.1	81.7	19.9	198	40
TM08-20-2	Magmatic core	0.671	61	92	0.1320	0.0203	0.4396	0.0642	0.0247	0.0011	0.3103	370	45.3	157	7.04	166	14.9	0.0353	7.67	0.050	BD	2.08	0.37	12.0	4.64	71.7	27.4	133	33.5	327	61
TM08-20-2	Magmatic core	0.656	42	63	0.																										

T16-77-6	Magmatic core	0.862	186	216	0.0461	0.0048	0.1566	0.0143	0.0255	0.0007	0.3132	147.7	12.5	162.0	4.6	172.2	8.1	3.2717	17.3	0.871	4.2	3.04	0.52	17.9	6.7	93	35	181	40	427	76
T16-77-11	Metamorphic rim	0.424	405	955	0.0487	0.0026	0.0846	0.0043	0.0126	0.0002	0.3251	82.5	4.1	81.0	1.3	81.6	3.2	0.0069	6.0	0.005	0.31	0.68	0.24	3.29	1.22	17.4	7.4	39	9.0	110	21
T16-77-11	Metamorphic rim	0.527	722	1370	0.0471	0.0022	0.0837	0.0040	0.0128	0.0002	0.2771	81.6	3.7	81.8	1.1	82.1	2.3	BD	8.3	0.019	0.42	1.06	0.52	7.2	2.11	27.6	8.8	43	8.9	101	18
T16-77-11	Metamorphic rim	0.402	292	726	0.0476	0.0028	0.0848	0.0049	0.0129	0.0002	0.2961	82.6	4.6	82.4	1.4	86.8	3.8	BD	5.1	0.010	0.06	0.22	0.16	1.45	0.66	9.5	3.9	21.9	4.5	58	11
T16-77-11	Metamorphic rim	0.252	246	974	0.0465	0.0027	0.0821	0.0047	0.0129	0.0002	0.3125	80.1	4.4	82.4	1.5	81.4	3.3	BD	4.0	0.005	0.11	0.41	0.14	1.88	0.79	10.7	3.9	20.1	4.8	57	11
T16-77-11	Metamorphic rim	0.187	223	1196	0.0484	0.0023	0.0873	0.0041	0.0130	0.0002	0.3130	85.0	3.8	83.5	1.2	87.1	3.3	0.0139	4.9	0.010	0.029	0.20	0.11	2.30	0.65	9.4	3.5	17.5	3.7	44	7
T16-77-11	Metamorphic rim	0.305	411	1346	0.0468	0.0021	0.0845	0.0038	0.0131	0.0002	0.3106	82.4	3.6	83.8	1.2	82.2	2.8	BD	5.6	0.010	0.39	0.73	0.28	4.7	1.23	14.7	5.6	26.3	6.1	74	14
T16-77-11	Metamorphic rim	0.387	427	1105	0.0488	0.0025	0.0885	0.0044	0.0131	0.0002	0.3477	86.1	4.1	83.8	1.4	85.8	3.8	BD	5.8	0.003	0.28	0.40	0.35	3.38	1.29	20.0	8.1	46	11.3	147	29
T16-77-11	Metamorphic rim	0.408	338	828	0.0468	0.0026	0.0849	0.0045	0.0133	0.0002	0.3145	82.7	4.2	84.9	1.4	83.6	2.9	0.0046	6.0	0.010	0.11	0.55	0.15	1.94	0.75	11.3	4.4	23.4	5.1	66	12
T16-77-11	Metamorphic rim	0.304	383	1259	0.0481	0.0020	0.0891	0.0039	0.0133	0.0002	0.3781	86.6	3.6	85.1	1.4	85.0	3.0	BD	5.7	0.015	0.14	0.68	0.21	3.19	1.04	12.3	4.4	24.1	5.2	64	13
T16-77-11	Metamorphic rim	0.361	533	1477	0.0469	0.0020	0.0862	0.0036	0.0133	0.0002	0.3423	84.0	3.4	85.2	1.2	83.0	2.6	BD	6.2	0.014	0.11	0.54	0.20	2.82	0.85	13.6	5.5	30.4	7.4	98	19
T16-77-11	Metamorphic rim	0.394	666	1693	0.0458	0.0019	0.0849	0.0036	0.0134	0.0002	0.3378	82.7	3.3	86.1	1.2	84.7	2.8	0.0068	7.3	0.043	0.42	0.51	0.47	5.7	1.97	27.1	10.5	57	13.3	168	34
T16-77-11	Metamorphic rim	0.573	966	1686	0.0471	0.0021	0.0886	0.0038	0.0136	0.0002	0.3034	86.2	3.6	87.2	1.1	82.4	2.1	BD	7.7	0.015	0.59	1.26	0.60	5.7	2.41	31.9	12.1	63	15.1	193	37
T16-77-11	Metamorphic rim	0.294	465	1581	0.0465	0.0019	0.0877	0.0035	0.0137	0.0002	0.3619	85.4	3.2	87.5	1.2	82.5	3.2	0.0038	6.6	0.045	0.28	0.84	0.35	4.4	1.51	15.7	5.0	20.8	4.1	40	6
T16-77-11	Metamorphic rim	0.363	259	712	0.0486	0.0031	0.0925	0.0057	0.0137	0.0002	0.2682	89.8	5.3	88.0	1.4	84.8	3.6	BD	4.4	0.000	0.20	0.30	0.07	1.57	0.49	8.4	3.18	18.3	4.1	49	9
T16-77-11	Metamorphic rim	0.339	865	2553	0.0465	0.0018	0.0896	0.0035	0.0139	0.0002	0.3534	87.1	3.2	88.8	1.2	89.8	3.0	0.0069	8.4	0.029	0.42	1.04	0.36	4.7	1.34	16.2	5.3	26.0	5.7	70	13
T16-77-11	Magmatic core	1.030	319	310	0.0542	0.0045	0.1692	0.0140	0.0225	0.0005	0.2421	158.7	12.1	143.7	2.8	142.3	5.2	0.0318	14.4	0.142	1.51	4.20	0.76	23.1	9.2	130	50	264	55	590	103
T16-77-11	Magmatic core	0.952	171	179	0.0476	0.0044	0.1494	0.0123	0.0228	0.0004	0.2323	141.4	10.9	145.5	2.8	143.6	6.0	BD	8.9	0.094	1.63	3.7	0.82	28.6	9.9	135	50	249	49	534	88
T16-77-11	Magmatic core	0.942	293	311	0.0491	0.0032	0.1579	0.0101	0.0235	0.0004	0.2671	148.8	8.9	149.7	2.5	142.7	4.7	0.0134	11.6	0.090	2.78	4.6	0.63	31.1	10.7	158	61	300	62	672	116
T16-77-11	Magmatic core	0.757	254	336	0.0474	0.0028	0.1565	0.0090	0.0242	0.0004	0.2988	147.6	7.9	153.9	2.6	154.7	5.0	BD	10.5	0.055	0.29	1.40	0.26	12.0	4.0	65	25.7	145	32.2	386	70
T16-77-11	Magmatic core	1.021	255	249	0.0465	0.0033	0.1547	0.0103	0.0242	0.0005	0.2839	146.1	9.0	154.2	2.9	152.9	5.1	BD	11.2	0.108	1.90	5.9	0.85	35	12.3	176	65	322	63	674	112
T16-77-11	Magmatic core	0.815	212	260	0.0489	0.0033	0.1639	0.0106	0.0243	0.0004	0.2621	154.1	9.3	154.8	2.6	155.3	4.9	BD	11.8	0.028	0.79	2.64	0.39	16.7	6.7	94	37	195	40	453	78
T16-77-11	Magmatic core	1.135	452	398	0.0501	0.0029	0.1671	0.0092	0.0243	0.0004	0.2838	156.9	8.0	155.0	2.4	144.4	4.1	0.0211	11.1	0.135	2.45	5.0	0.76	31.1	11.4	168	66	332	68	754	129
T16-77-11	Magmatic core	1.259	697	553	0.0505	0.0026	0.1706	0.0085	0.0244	0.0004	0.3645	159.9	7.4	155.2	2.8	155.9	5.8	0.0070	17.8	0.282	4.6	8.4	1.30	53	18.4	271	112	564	112	1204	203
T16-77-11	Magmatic core	1.512	997	659	0.0452	0.0029	0.1512	0.0097	0.0244	0.0004	0.2881	143.0	8.5	155.3	2.8	157.2	4.6	0.0237	18.3	0.268	4.0	10.0	1.49	78	27.5	429	172	845	163	1687	284
T16-77-11	Magmatic core	1.723	1552	900	0.0480	0.0017	0.1642	0.0061	0.0247	0.0003	0.3716	154.4	5.3	157.1	2.1	156.5	3.6	0.1196	37	0.459	7.3	17.4	3.24	139	48	655	241	1144	215	2231	361
T16-77-11	Magmatic core	1.153	464	402	0.0478	0.0027	0.1629	0.0092	0.0247	0.0004	0.3045	153.3	8.1	157.3	2.7	159.6	4.9	0.0105	12.3	0.237	4.2	8.0	1.22	48	17.0	238	93	464	92	976	167
T16-77-11	Magmatic core	0.965	138	143	0.0509	0.0045	0.1704	0.0128	0.0250	0.0006	0.3191	159.8	11.1	158.9	3.8	161.5	6.8	BD	6.6	0.048	1.24	3.30	0.50	19.7	7.2	100	38	188	38	421	71
T16-77-11	Magmatic core	0.578	85	146	0.0487	0.0040	0.1660	0.0130	0.0254	0.0006	0.2880	155.9	11.3	161.6	3.6	153.4	8.3	0.0220	6.5	0.021	0.39	1.41	0.26	14.2	4.8	71	27.9	143	30.7	365	67
T16-77-11	Magmatic core	1.264	489	387	0.0452	0.0028	0.1636	0.0103	0.0259	0.0004	0.2452	153.8	9.0	164.9	2.5	165.7	4.9	BD	14.1	0.209	4.0	8.3	1.42	53	18.5	272	99	481	94	994	161
T16-77-11	Magmatic core	0.599	72	120	0.0510	0.0044	0.1822	0.0135	0.0263	0.0006	0.3237	169.9	11.6	167.5	4.0	168.8	9.3	0.0149	6.3	0.000	0.27	1.12	0.13	8.0	2.92	43	17.9	98	20.7	229	40
T16-77-14	Magmatic core	0.427	212	496	0.0477	0.0034	0.0829	0.0056	0.0128	0.0003	0.2886	80.9	5.3	82.0	1.6	84.2	3.7	0.0068	9.45	0.016	0.095	0.41	0.20	3.70	1.08	14.0	4.99	25.7	6.03	76	15
T16-77-14	Magmatic core	0.409	300	733	0.0472	0.0026	0.0838	0.0045	0.0129	0.0002	0.3244	81.7	4.2	82.4	1.4	79.4	3.4	0.0068	11.4	0.044	0.30	0.56	0.25	5.27	1.75	25.9	9.57	51.1	11.3	146	27
T16-77-14	Magmatic core	0.273	276	1011	0.0457	0.0026	0.0817	0.0046	0.0130	0.0002	0.2782	79.7	4.3	83.3	1.3	83.4	3.7	BD	9.99	0.011	0.40	0.56	0.31	5.34	1.64	26.2	10.3	57.7	13.5	175	33
T16-77-14	Magmatic core	0.353	249	705	0.0466	0.0027	0.0833	0.0044	0.0131	0.0002	0.2958	81.2	4.1	83.6	1.3	82.1	3.4	0.0125	9.88	0.035	0.33	0.90	0.30	4.51	1.55	20.8	7.39	38.9	8.89	110	21
T16-77-14	Magmatic core	0.557	410	735	0.0472	0.0028	0.0845	0.0048	0.0131	0.0002	0.3083	82.4	4.5	83.8	1.4	75.9	2.8	BD	14.3	0.051	0.50	1.62	0.37	7.27	2.02	23.5	6.25	24.6	3.93	39	5
T16-77-14	Magmatic core	0.713	978	1372	0.0456	0.0022	0.0830	0.0040	0.0131	0.0002	0.3121	81.0	3.8	83.9	1.3	78.2	2.3	BD	19.3	0.101	2.83	5.77	1.98	25.1	6.64	66.9	20.7	93.0	18.5	212	37
T16-77-14	Magmatic core	0.521	463	888	0.0470	0.0027	0.0858	0.0051	0.0131	0.0002	0.3046	83.5	4.8	84.2	1.5	79.6	3.1	0.0069	14.7	0.041	0.72	1.85	0.66	10.2	2.85	30.3	7.70	25.9	4.49	42	6
T16-77-14	Magmatic core	0.214	192	895	0.0431	0.0030	0.0805	0.0052	0.0135	0.0002	0.2688	78.6	4.9	86.4	1.5	91.4	4.7	BD	8.00	0.007	0.20	0.091	0.13	2.30	1.18	17.3	7.66	42.7	10.3	139	28
T16-77-14	Magmatic core	0.314	157	500	0.0477	0.0036	0.0877	0.0061	0.0135	0.0002	0.2504	85.4	5.7	86.5	1.5	82.2	4.3	0.0136	7.31	0.001	0.31	0.38	0.19	2.99	1.09	15.7	6.62	37.5	9.13	121	23
T16-77-14	Magmatic core	0.461	384	833	0.0443	0.0025	0.0843	0.0048	0.0136	0.0003	0.3505	82.2	4.5	87.1	1.7	82.7	3.6	BD	13.0	0.067	0.92	1.92	0.48	11.1	3.10	28.2	7.30	25.5	4.19	43	6
T16-77-14	Magmatic core	0.367	194	528	0.0438																										

T16-91-34	Metamorphic rim	0.016	15	909	0.0498	0.0029	0.0467	0.0027	0.0068	0.0001	0.2909	46.4	2.6	44.0	0.7	144.6	20.1	0.0106	1.54	0.005	0.030	0.11	0.12	0.93	0.38	5.73	2.55	13.6	4.02	53	13
T16-91-34	Metamorphic rim	0.043	33	771	0.0504	0.0028	0.0497	0.0026	0.0071	0.0001	0.3003	49.3	2.5	45.9	0.7	59.9	4.5	0.0116	2.87	0.003	0.033	0.45	0.17	1.37	0.74	8.53	3.82	20.5	5.96	72	18
T16-91-34	Metamorphic rim	0.039	119	3056	0.0480	0.0015	0.0527	0.0017	0.0080	0.0001	0.3735	52.2	1.6	51.1	0.6	45.1	2.1	0.0042	5.13	0.009	0.28	0.86	0.34	5.43	1.93	25.9	10.9	55.3	14.6	167	37
T16-91-34	Metamorphic rim	0.176	144	819	0.0516	0.0033	0.0595	0.0036	0.0085	0.0001	0.2855	58.7	3.5	54.3	0.9	51.6	2.8	0.0069	21.4	0.049	1.11	3.87	2.20	23.0	7.62	89.0	33.8	146	33.4	331	65
T16-91-34	Metamorphic rim	0.312	114	366	0.0712	0.0050	0.0843	0.0058	0.0087	0.0002	0.2555	82.1	5.4	55.6	1.0	73.2	4.1	0.0079	15.0	0.025	1.03	3.02	1.80	17.8	5.85	70.7	28.0	128	30.3	312	63
T16-91-34	Metamorphic rim	0.036	15	427	0.0950	0.0076	0.1180	0.0098	0.0089	0.0002	0.2498	113.3	8.9	57.0	1.2	778.3	86.6	0.0308	3.05	0.015	0.19	0.82	0.38	3.77	1.63	21.9	9.12	45.4	11.4	126	29
T16-91-34	Metamorphic rim	0.186	47	251	0.0481	0.0036	0.0622	0.0041	0.0094	0.0002	0.2682	61.3	3.9	60.5	1.1	54.7	3.9	0.0035	6.97	0.010	0.38	1.11	0.56	6.78	2.44	32.8	14.3	73.4	19.5	218	45
T16-91-34	Magmatic core	0.612	354	578	0.0491	0.0020	0.1528	0.0059	0.0225	0.0003	0.3196	144.4	5.2	143.5	1.8	136.2	3.3	0.0225	14.3	0.040	1.29	3.90	0.20	30.8	11.8	155	62.4	279	60.6	572	102
T16-91-34	Magmatic core	0.562	155	275	0.0491	0.0025	0.1729	0.0081	0.0256	0.0004	0.3207	162.0	7.0	163.0	2.4	164.5	4.9	0.0485	10.5	0.014	0.50	2.33	0.21	14.4	6.03	77.7	31.2	145	33.1	313	58
T16-91-34	Magmatic core	0.608	329	541	0.0498	0.0019	0.1759	0.0069	0.0256	0.0004	0.3597	164.5	6.0	163.2	2.3	155.8	4.3	BD	13.3	0.050	0.88	3.68	0.13	28.7	10.9	142	56.9	253	56.0	517	92
T16-91-34	Magmatic core	0.823	427	519	0.0497	0.0020	0.1755	0.0068	0.0259	0.0004	0.3512	164.2	5.9	164.7	2.2	156.6	4.1	BD	21.9	0.058	1.65	4.42	0.30	33.0	12.2	154	61.0	266	58.5	547	96
T16-91-34	Magmatic core	0.768	166	216	0.0499	0.0026	0.1816	0.0093	0.0266	0.0004	0.2726	169.5	8.0	169.0	2.3	164.2	5.7	0.0222	19.0	0.065	1.13	3.96	0.51	20.6	7.17	92.7	36.9	169	37.1	359	67
T16-91-34	Magmatic core	0.926	386	417	0.0480	0.0020	0.1778	0.0070	0.0269	0.0003	0.3206	166.2	6.1	170.9	2.1	159.7	3.3	0.0036	34.7	0.104	2.47	6.24	0.89	36.9	13.8	174	70.1	318	71.0	667	122
T16-91-34	Magmatic core	0.653	524	803	0.0488	0.0014	0.1831	0.0054	0.0269	0.0003	0.3542	170.8	4.6	171.2	1.8	155.1	3.4	BD	15.6	0.041	1.50	5.12	0.094	37.0	14.5	192	77.6	341	73.6	678	118
T16-91-34	Magmatic core	0.746	442	593	0.0490	0.0016	0.1834	0.0061	0.0270	0.0003	0.3354	171.0	5.2	171.5	1.9	159.7	3.2	0.1108	23.1	0.097	2.01	5.51	0.33	37.0	13.9	178	69.7	308	68.2	636	112
T16-91-34	Magmatic core	0.779	715	917	0.0472	0.0015	0.1850	0.0058	0.0282	0.0004	0.4139	172.4	5.0	179.5	2.3	163.7	3.5	0.0038	25.0	0.096	1.78	6.00	0.30	42.1	15.9	214	83.6	366	78.0	712	127
T16-91-34	Magmatic core	0.779	452	580	0.0497	0.0018	0.1938	0.0073	0.0283	0.0004	0.3636	179.9	6.2	179.7	2.4	162.9	3.7	0.0000	16.9	0.056	1.33	4.35	0.25	31.5	12.0	155	60.4	274	59.4	539	100
T17-1-25	Magmatic core	2.237	2172	971	0.0485	0.0018	0.1622	0.0057	0.0244	0.0003	0.3052	152.6	5.0	155.2	1.6	150.4	2.9	0.0081	56.3	0.185	3.20	9.22	1.39	64.7	22.7	327	120	585	123	1240	201
T17-1-25	Magmatic core	1.727	1430	828	0.0499	0.0019	0.1697	0.0063	0.0246	0.0003	0.2888	159.2	5.5	156.9	1.7	157.2	3.1	0.0518	44.7	0.440	8.31	17.7	2.68	113	38.2	527	191	918	187	1876	312
T17-1-25	Magmatic core	1.847	1315	712	0.0495	0.0022	0.1695	0.0077	0.0247	0.0003	0.3001	159.0	6.6	157.2	2.1	158.5	3.7	0.0437	37.8	0.297	5.35	12.6	1.99	82.9	26.7	374	134	644	131	1342	220
T17-1-25	Magmatic core	1.697	914	539	0.0502	0.0024	0.1698	0.0079	0.0247	0.0004	0.3054	159.2	6.9	157.4	2.2	153.0	3.3	BD	22.9	0.108	1.80	4.38	0.83	32.6	11.6	175	67.5	341	74.4	759	128
T17-1-25	Magmatic core	1.509	774	513	0.0501	0.0029	0.1698	0.0086	0.0247	0.0004	0.2869	159.2	7.4	157.5	2.3	162.5	4.2	0.0081	23.4	0.067	1.56	4.86	0.85	34.0	12.1	170	65.9	326	70.3	745	121
T17-1-25	Magmatic core	1.582	1130	714	0.0518	0.0021	0.1802	0.0073	0.0249	0.0003	0.2840	168.3	6.3	158.5	1.8	163.2	4.0	0.0374	40.4	0.449	7.37	18.3	2.71	111	37.7	502	179	856	178	1785	292
T17-1-25	Magmatic core	1.610	1037	644	0.0488	0.0019	0.1699	0.0068	0.0252	0.0003	0.3097	159.4	5.9	160.2	2.0	161.7	3.6	0.0560	35.3	0.327	6.66	14.0	2.12	88.1	29.6	405	147	708	148	1496	244
T17-1-25	Magmatic core	2.225	2107	947	0.0485	0.0019	0.1685	0.0064	0.0253	0.0003	0.3182	158.1	5.6	161.4	1.9	153.7	3.2	0.0083	42.9	0.137	3.11	6.37	1.22	54.9	19.7	273	102	500	105	1055	177
T17-1-25	Magmatic core	1.961	1978	1008	0.0469	0.0016	0.1640	0.0053	0.0254	0.0003	0.3483	154.2	4.7	161.8	1.8	155.4	3.2	0.0040	45.9	0.111	3.32	6.66	0.99	52.9	18.6	271	102	505	105	1059	178
T17-1-25	Magmatic core	1.590	954	600	0.0474	0.0020	0.1679	0.0072	0.0257	0.0003	0.3026	157.6	6.3	163.3	2.1	160.1	3.5	0.0080	30.9	0.376	6.18	14.1	2.13	87.8	30.0	403	148	719	149	1485	249
T17-1-25	Magmatic core	1.090	294	270	0.0502	0.0030	0.1780	0.0092	0.0257	0.0004	0.3140	166.3	7.9	163.3	2.6	183.5	5.8	0.3715	14.9	0.114	1.39	2.68	0.50	18.0	7.01	101	39.2	207	45.4	478	84
T17-1-25	Magmatic core	2.101	1611	767	0.0480	0.0019	0.1722	0.0068	0.0257	0.0003	0.2747	161.3	5.9	163.5	1.7	156.1	3.2	0.0539	37.9	0.253	4.24	10.7	1.48	65.5	23.0	309	113	548	114	1161	192
T17-1-25	Magmatic core	1.354	653	482	0.0496	0.0024	0.1772	0.0084	0.0257	0.0004	0.2888	165.6	7.3	163.6	2.2	166.7	3.9	BD	30.8	0.110	2.34	5.67	0.75	40.0	14.4	208	80.1	399	85.5	886	150
T17-1-25	Magmatic core	1.360	662	486	0.0507	0.0025	0.1800	0.0086	0.0259	0.0003	0.2716	168.0	7.4	165.1	2.1	167.4	4.3	0.0083	21.0	0.074	1.19	3.76	0.61	27.5	10.1	149	57.5	290	62.3	651	111
T17-1-25	Magmatic core	1.795	1180	657	0.0513	0.0022	0.1860	0.0081	0.0263	0.0004	0.3310	173.2	7.0	167.3	2.4	176.6	4.5	0.0082	28.6	0.067	1.85	5.83	0.90	38.7	13.7	195	73.7	366	77.7	798	137
T17-1-25	Magmatic core	1.760	1275	725	0.0518	0.0023	0.1892	0.0083	0.0263	0.0004	0.3074	175.9	7.1	167.5	2.2	172.6	3.9	0.0090	32.0	0.109	1.96	5.13	0.92	42.4	14.7	218	81.7	404	86.3	880	147
T17-1-25	Magmatic core	1.727	1173	679	0.0502	0.0022	0.1853	0.0082	0.0266	0.0003	0.2900	172.6	7.0	169.5	2.1	167.2	3.4	0.0524	38.8	0.313	5.88	13.8	2.18	89.6	30.8	408	150	720	149	1506	250
T17-1-26	Metamorphic rim	0.543	231	426	0.0464	0.0031	0.0876	0.0056	0.0136	0.0002	0.2477	85.3	5.2	87.4	1.4	88.5	3.1	BD	5.20	0.001	0.21	0.22	0.15	1.86	0.67	10.7	4.38	25.0	6.80	87	18
T17-1-26	Metamorphic rim	0.604	236	390	0.0535	0.0033	0.1006	0.0057	0.0138	0.0002	0.2742	97.3	5.3	88.6	1.4	91.8	3.3	BD	5.69	0.016	0.099	0.30	0.16	1.75	0.71	10.5	4.74	26.0	6.89	92	18
T17-1-26	Metamorphic rim	0.362	139	383	0.0448	0.0030	0.0898	0.0061	0.0144	0.0003	0.2650	87.3	5.7	92.2	1.6	101.6	6.0	BD	3.63	0.008	0.100	0.12	0.12	1.41	0.67	11.3	4.77	28.7	7.77	106	22
T17-1-26	Metamorphic rim	0.024	24	992	0.0488	0.0020	0.0966	0.0039	0.0144	0.0002	0.3256	93.6	3.6	92.4	1.2	92.2	7.0	BD	2.17	0.000	0.13	0.78	0.68	9.11	3.58	52.2	21.2	112	28.2	352	70
T17-1-26	Metamorphic rim	0.014	8	534	0.0476	0.0034	0.0945	0.0065	0.0145	0.0002	0.2194	91.7	6.0	92.6	1.4	150.0	25.1	0.0037	1.07	0.000	0.016	0.36	0.24	2.96	1.37	24.6	10.6	65.7	18.6	253	55
T17-1-26	Magmatic core	1.315	451	343	0.0532	0.0028	0.1835	0.0095	0.0252	0.0004	0.3076	171.1	8.1	160.4	2.5	161.2	4.4	0.0075	17.1	0.057	1.40	3.69	0.79	24.5	8.84	128	51.1	257	56.7	608	103
T17-1-26	Magmatic core	1.061	305	288	0.0501	0.0030	0.1752	0.0093	0.0257	0.0004	0.2852	163.9	8.0	163.6	2.4																

D120303	Magmatic core	0.725	250	345	0.0503	0.0028	0.1521	0.0075	0.0221	0.0003	0.3123	143.7	6.6	141.1	2.2	156.6	4.2	0.0632	44.9	0.292	4.84	12.6	2.44	77.1	27.3	320	123.4	547	113.2	995	207
D120303	Magmatic core	0.543	55	101	0.0542	0.0044	0.1645	0.0109	0.0230	0.0005	0.3121	154.6	9.5	146.4	3.0	145.1	6.7	0.0034	19.3	0.054	1.21	3.8	1.20	28.6	10.6	136	54.0	251	54.2	496	105
D120303	Magmatic core	0.545	22	41	0.0444	0.0053	0.1642	0.0184	0.0257	0.0007	0.2396	154.4	16.1	163.7	4.3	154.3	9.1	BD	8.2	0.056	1.23	3.2	1.39	22.2	8.2	98	39.5	176	36.3	333	69
D120303	Magmatic core	0.648	104	160	0.0518	0.0026	0.1902	0.0092	0.0265	0.0004	0.2931	176.8	7.8	168.8	2.4	178.5	5.0	0.0172	26.7	0.046	1.19	4.0	1.24	30.6	11.7	149	61.0	288	61.4	567	121
D120303	Magmatic core	0.783	102	130	0.0486	0.0034	0.1714	0.0101	0.0267	0.0005	0.3016	160.6	8.7	169.7	3.0	171.4	5.6	BD	26.9	0.190	3.71	9.6	3.18	60.4	19.9	231	90.2	392	80.9	731	153
D120303	Magmatic core	0.578	34	59	0.0572	0.0059	0.2061	0.0182	0.0276	0.0007	0.2715	190.3	15.3	175.7	4.1	188.3	7.0	BD	13.7	0.032	0.97	3.3	1.16	23.5	8.8	105	41.6	188	39.1	358	74
D120303	Magmatic core	0.603	36	60	0.0568	0.0054	0.2121	0.0180	0.0278	0.0006	0.2589	195.3	15.1	176.7	3.8	202.5	11.4	0.0595	14.2	0.115	1.57	3.5	1.43	25.5	9.3	113	45.7	206	43.1	401	84
D120303	Magmatic core	0.765	60	79	0.0433	0.0035	0.1671	0.0115	0.0283	0.0006	0.3095	156.9	10.0	180.0	3.8	175.2	7.1	0.0000	19.7	0.143	3.16	7.1	2.61	44.0	14.6	174	66.0	284	58.9	522	107
D120303	Magmatic core	0.810	114	141	0.0477	0.0028	0.1889	0.0106	0.0292	0.0005	0.2924	175.7	9.1	185.3	3.0	182.3	5.4	0.3459	37.2	0.209	2.60	6.0	2.75	47.8	18.3	239	95.4	436	91.8	833	175
D120303	Magmatic core	0.845	161	190	0.0507	0.0024	0.2071	0.0095	0.0298	0.0004	0.3235	191.1	8.0	189.2	2.8	205.7	5.3	0.0797	36.6	0.133	2.41	7.3	2.55	50.1	18.7	232	93.7	418	88.1	789	165
D350612	Magmatic core	0.317	34	108	0.0523	0.00435	0.17300	0.01350	0.02450	0.00050	0.04334	155.0	12.0	156.2	3.3	181.0	20	BD	1.9	BD	0.224	1.35	0.277	10.88	4.73	63.2	29	153.2	35.6	359	82
D350612	Magmatic core	0.339	44	129	0.0489	0.0034	0.17100	0.01150	0.02585	0.00047	0.11927	158.0	10.5	164.4	3.0	181.0	18.5	BD	2.41	0.012	0.29	1.1	0.339	12.06	5.16	80	36.2	200	47.9	484	111
D350612	Magmatic core	0.315	51	163	0.0489	0.0028	0.18500	0.01050	0.02680	0.00042	0.05534	166.0	9.0	170.4	2.6	172.0	12.5	BD	2.12	0.023	0.52	1.14	0.4	9.6	3.74	51.4	23.46	136.8	34.7	378	92
D350612	Magmatic core	0.323	74	228	0.0532	0.0024	0.19800	0.00900	0.02677	0.00040	0.10986	180.0	7.5	170.9	2.4	168.0	10.5	BD	3.44	0.056	1.15	3.92	0.69	32.5	11.45	158.6	72.5	391	85.8	829	186
D350612	Magmatic core	0.315	33	105	0.0511	0.004	0.19600	0.01500	0.02700	0.00060	0.07061	171.0	12.0	171.4	3.7	198.0	15.5	BD	1.97	0.030	1.03	3.77	0.91	30.7	11.8	165	66.1	329	67.2	624	129
D350612	Magmatic core	0.324	103	317	0.0529	0.00205	0.19800	0.00750	0.02705	0.00038	0.21295	180.0	6.5	172.0	2.4	182.0	11.5	BD	1.27	0.018	0.45	0.92	0.476	6.53	2.93	42.6	19.66	114.5	30.4	336	89
D350612	Magmatic core	0.322	68	211	0.0541	0.00275	0.19200	0.00900	0.02711	0.00045	0.09377	176.0	8.0	172.4	2.8	167.0	12.5	BD	3.57	0.031	0.66	2.47	0.471	23.2	8.68	139.2	60.9	333	77	743	165
D350612	Magmatic core	0.332	255	768	0.0479	0.00135	0.18200	0.00500	0.02720	0.00032	0.27580	168.3	4.4	172.9	2.0	163.3	5	BD	11.53	0.041	0.9	2.7	0.85	26.5	12.36	198.7	91.1	494	118.8	1176	287
D350612	Magmatic core	0.315	48	153	0.0509	0.0036	0.18600	0.01250	0.02724	0.00044	0.05904	168.0	11.0	173.2	2.8	175.0	12.5	BD	3.23	0.050	1.25	2.88	0.714	18.5	7.18	97.5	42.3	243	56.4	566	133
D350612	Magmatic core	0.326	38	118	0.0596	0.00375	0.23000	0.01450	0.02730	0.00050	0.24327	202.0	12.0	173.8	3.3	184.0	22.5	BD	1.88	0.011	0.183	1.09	0.192	12.21	5.07	79.9	35.9	203.8	49.5	506	116
D350612	Magmatic core	0.333	73	219	0.0495	0.00235	0.18700	0.00850	0.02745	0.00039	0.05148	174.0	7.5	174.5	2.5	207.0	16	BD	3.71	0.018	0.29	1.66	0.411	17.67	7.55	122.1	56.1	333	82.3	805	193
D350612	Magmatic core	0.319	50	158	0.0545	0.0032	0.20600	0.01150	0.02755	0.00050	0.03852	185.0	10.0	175.1	3.2	200.0	14	BD	1.4	0.030	0.68	0.98	0.77	7.49	2.94	42.6	17.88	98.6	24.2	271	69
D350612	Magmatic core	0.309	109	352	0.0509	0.002	0.19400	0.00750	0.02772	0.00041	0.10236	178.0	6.5	176.2	2.6	157.0	9.5	BD	2.94	0.012	0.276	1.21	0.228	11.14	4.41	73.4	33.1	199.8	48.4	505	120
D350612	Magmatic core	0.321	120	373	0.046	0.00185	0.18100	0.00700	0.02788	0.00036	0.09676	166.0	6.0	177.2	2.2	174.0	5.5	BD	5.84	0.024	0.61	2.59	0.619	29.7	11.64	183.4	77.4	398	86.2	805	177
D350612	Magmatic core	0.323	50	155	0.0503	0.00335	0.18700	0.01200	0.02795	0.00046	0.00451	169.0	10.5	177.6	2.9	162.0	12.5	BD	2.8	0.058	1.07	4.17	0.79	30.1	11.48	170.5	70	375	81.3	768	170
D350612	Magmatic core	0.343	29	85	0.0504	0.004	0.20200	0.01600	0.02810	0.00060	0.21067	173.0	13.0	178.2	3.6	197.0	19	BD	1.55	0.022	0.37	1.51	0.413	14.7	6.08	89.5	38.7	196.4	44.7	420	94
D350612	Magmatic core	0.340	43	127	0.0529	0.0034	0.20000	0.01250	0.02819	0.00050	0.02631	177.0	10.5	179.1	3.3	197.0	15	BD	1.014	0.021	0.35	1.17	0.73	9.82	4.23	57.9	26.3	140.5	33.3	355	92
D350612	Magmatic core	0.336	42	124	0.0466	0.0034	0.17400	0.01250	0.02831	0.00046	0.14980	157.0	10.5	179.9	2.9	183.0	16.5	BD	2.11	BD	0.208	0.74	0.203	9.17	3.62	53.8	23.7	134.5	30.1	323	74
D350612	Magmatic core	0.319	47	147	0.0496	0.00325	0.19900	0.01300	0.02831	0.00050	0.11276	179.0	11.0	179.9	3.2	189.0	11.5	BD	2.51	0.034	0.76	3.06	0.79	24.8	10.1	132.2	55.9	278	60.7	565	118
D350613	Magmatic core	0.294	11	39	0.0518	0.00385	0.15100	0.01100	0.02226	0.00042	0.03779	136.0	9.5	141.8	2.7	125.0	11.0	BD	4.1	0.020	0.55	1.5	0.62	8.6	3.4	48.2	21.6	115.9	29.7	311	75
D350613	Magmatic core	0.319	32	100	0.0472	0.0025	0.15700	0.00750	0.02471	0.00034	0.60000	145.0	6.5	157.3	2.2	152.0	8.0	BD	11.0	0.022	0.44	1.4	0.42	13.5	5.1	75.2	31.2	168.5	39.6	388	89
D350613	Magmatic core	0.266	70	263	0.0497	0.0015	0.16900	0.00500	0.02479	0.00028	0.08006	158.3	4.4	157.8	1.8	161.9	5.5	BD	20.8	0.024	0.52	3.4	0.75	29.7	13.5	204.0	94.8	525.0	122.5	1176	261
D350613	Magmatic core	0.344	27	77	0.0485	0.00275	0.16700	0.00900	0.02487	0.00038	0.16446	154.0	8.0	158.3	2.4	172.0	9.0	BD	7.8	0.015	0.27	1.1	0.43	10.8	3.9	58.5	24.8	133.7	29.5	298	67
D350613	Magmatic core	0.458	95	207	0.049	0.0017	0.16900	0.00600	0.02486	0.00028	0.05179	157.0	5.0	158.3	1.8	158.3	5.0	BD	21.5	0.044	0.93	3.2	0.74	26.7	11.2	167.4	66.8	357.0	82.1	802	184
D350613	Magmatic core	0.469	114	244	0.0517	0.0015	0.17800	0.00550	0.02488	0.00029	0.17034	164.7	4.5	158.4	1.8	155.5	4.9	0.013	28.0	0.078	1.86	5.8	1.28	49.7	19.0	269.0	107.0	560.0	124.0	1192	263
D350613	Magmatic core	0.325	47	145	0.0517	0.00215	0.17900	0.00700	0.02498	0.00034	0.05480	164.0	6.0	159.0	2.1	148.0	7.0	BD	16.7	0.021	0.65	2.4	0.58	23.1	9.4	140.7	59.3	320.0	75.8	763	165
D350613	Magmatic core	0.374	60	160	0.0497	0.0019	0.17300	0.00650	0.02509	0.00030	0.15359	160.0	5.5	159.7	1.9	149.0	6.0	BD	16.3	0.014	0.70	2.5	0.45	20.2	7.6	111.3	46.9	259.0	59.9	603	131
D350613	Magmatic core	0.374	73	195	0.0504	0.00195	0.17100	0.00600	0.02508	0.00032	0.13381	158.0	5.5	159.7	2.0	159.0	6.0	BD	20.0	0.034	0.63	2.9	0.66	24.8	10.3	151.3	64.5	345.0	81.2	813	175
D350613	Magmatic core	0.386	76	197	0.0484	0.00145	0.17000	0.00500	0.02511	0.00030	0.22581	158.1	4.5	159.9	1.9	160.6	5.0	0.008	20.2	0.032	0.82	2.9	0.71	27.9	11.1	169.5	71.0	370.0	84.5	845	186
D350613	Magmatic core	0.842	117	139	0.049	0.0021	0.17000	0.00700	0.02525	0.00030	0.12140	157.0	6.0	160.7	1.9	161.5	4.6	BD	15.7	0.024	1.03	2.8	0.82	22.1	8.4	105.1	42.0	217.0	48.2	464	107
D350613	Magmatic core	0.527	190	360	0.0512	0.0013	0.18120	0.00460	0.02584	0.00028	0.2																				

Table S3 Zircon Hf isotopic data of the studied Jurassic magmatic rocks of the eastern Gangdese arc

Sample		176Hf/177Hf	1σ	176Lu/177Hf	1σ	176Yb/177Hf	1σ	Age (Ma)	(¹⁷⁶ Hf/ ¹⁷⁷ Hf) _i	e _{Hf} (0)	e _{Hf} (t)	±(2s)	f _{Lu/Hf}	T _{DM1} (Ma)	±(2s)	T _{DM2} (Ma)	±(2s)
TM07-50-2	Magmatic core	0.283097	0.000020	0.002442	0.000027	0.065411	0.000825	164.9	0.28309	11.5	14.8	0.7	-0.93	239	60	279	91
TM07-50-2	Magmatic core	0.283110	0.000012	0.001283	0.000015	0.035774	0.000460	164.9	0.28311	12.0	15.4	0.4	-0.96	207	34	232	54
TM07-50-2	Magmatic core	0.283115	0.000012	0.001377	0.000004	0.038382	0.000155	164.9	0.28311	12.1	15.6	0.4	-0.96	201	35	222	55
TM07-50-2	Magmatic core	0.283116	0.000016	0.001323	0.000011	0.036888	0.000351	164.9	0.28311	12.2	15.6	0.6	-0.96	199	45	219	71
TM07-50-2	Magmatic core	0.283118	0.000015	0.002172	0.000029	0.062913	0.000988	164.9	0.28311	12.2	15.6	0.5	-0.93	205	45	226	70
TM07-50-2	Magmatic core	0.283120	0.000013	0.001722	0.000018	0.050393	0.000632	164.9	0.28311	12.3	15.7	0.5	-0.95	198	38	217	59
TM07-50-2	Magmatic core	0.283122	0.000013	0.001445	0.000009	0.041084	0.000327	164.9	0.28312	12.4	15.9	0.5	-0.96	191	39	207	61
TM07-50-2	Magmatic core	0.283116	0.000014	0.002766	0.000029	0.082017	0.000572	164.9	0.28311	12.2	15.5	0.5	-0.92	214	41	239	63
TM07-50-2	Magmatic core	0.283127	0.000015	0.001434	0.000020	0.037283	0.000356	164.9	0.28312	12.6	16.0	0.5	-0.96	185	43	196	68
TM07-50-2	Magmatic core	0.283130	0.000015	0.001516	0.000014	0.041235	0.000639	164.9	0.28313	12.7	16.1	0.5	-0.95	181	43	190	68
TM07-50-2	Magmatic core	0.283123	0.000015	0.001592	0.000006	0.047100	0.000286	164.9	0.28312	12.4	15.8	0.5	-0.95	192	43	208	67
TM07-50-2	Magmatic core	0.283126	0.000013	0.000663	0.000031	0.047645	0.000771	164.9	0.28312	12.5	16.0	0.5	-0.95	188	39	201	61
TM07-50-2	Magmatic core	0.283128	0.000018	0.002709	0.000038	0.076615	0.000899	164.9	0.28312	12.6	15.9	0.6	-0.92	195	55	211	83
TM07-50-2	Magmatic core	0.283123	0.000013	0.001616	0.000014	0.045594	0.000469	164.9	0.28312	12.4	15.9	0.5	-0.95	192	38	207	59
TM07-50-2	Magmatic core	0.283129	0.000015	0.001873	0.000006	0.050872	0.000101	164.9	0.28312	12.6	16.0	0.5	-0.94	186	43	197	67
TM08-20-4	Magmatic core	0.283082	0.000016	0.002249	0.000029	0.052819	0.000762	163.2	0.28307	11.0	14.3	0.6	-0.93	259	48	311	74
TM08-20-5	Magmatic core	0.283089	0.000016	0.001641	0.000012	0.036990	0.000291	163.2	0.28308	11.2	14.6	0.6	-0.95	242	45	287	71
TM08-20-6	Magmatic core	0.283045	0.000016	0.000867	0.000012	0.020161	0.000282	163.2	0.28304	9.6	13.1	0.6	-0.97	296	44	376	71
TM08-20-7	Magmatic core	0.283092	0.000016	0.000965	0.000060	0.021901	0.001418	163.2	0.28309	11.3	14.8	0.6	-0.97	229	47	269	75
TM08-20-8	Magmatic core	0.283008	0.000019	0.000972	0.000017	0.023852	0.000470	163.2	0.28301	8.3	11.8	0.7	-0.97	350	54	460	86
TM08-20-9	Magmatic core	0.283021	0.000018	0.000488	0.000013	0.010663	0.000287	163.2	0.28302	8.8	12.3	0.6	-0.99	325	51	424	82
TM08-20-10	Magmatic core	0.283044	0.000015	0.000822	0.000032	0.018841	0.000758	163.2	0.28304	9.6	13.1	0.5	-0.98	297	41	377	66
TM08-20-11	Magmatic core	0.283031	0.000015	0.000492	0.000005	0.009672	0.000110	163.2	0.28303	9.1	12.7	0.5	-0.99	312	42	403	67
TM08-20-12	Magmatic core	0.283103	0.000017	0.002245	0.000050	0.052251	0.001243	163.2	0.28310	11.7	15.0	0.6	-0.93	228	50	263	77
TM08-20-13	Magmatic core	0.283007	0.000014	0.001063	0.000011	0.027042	0.000379	163.2	0.28300	8.3	11.8	0.5	-0.97	352	39	463	62
TM08-20-14	Magmatic core	0.282987	0.000016	0.001147	0.000036	0.027560	0.000814	163.2	0.28298	7.6	11.1	0.6	-0.97	382	46	511	73
TM08-20-15	Magmatic core	0.283014	0.000015	0.001273	0.000038	0.030049	0.000972	163.2	0.28301	8.6	12.0	0.5	-0.96	345	44	450	69
TM08-20-16	Magmatic core	0.283054	0.000013	0.001726	0.000015	0.040237	0.000371	163.2	0.28305	10.0	13.4	0.5	-0.95	294	39	367	61
T16-77-6	Metamorphic rim	0.283113	0.000030	0.000117	0.000001	0.003837	0.000029	81.7	0.28311	12.1	13.8	1.1	-1.00	192	84	261	137
T16-77-7	Metamorphic rim	0.283072	0.000016	0.000040	0.000001	0.001791	0.000020	81.7	0.28307	10.6	12.4	0.6	-1.00	248	45	354	73
T16-77-8	Metamorphic rim	0.283134	0.000016	0.000047	0.000001	0.001882	0.000018	81.7	0.28313	12.8	14.6	0.6	-1.00	162	44	213	72
T16-77-9	Metamorphic rim	0.283087	0.000025	0.000094	0.000002	0.003523	0.000060	81.7	0.28309	11.1	12.9	0.9	-1.00	228	70	320	114
T16-77-10	Metamorphic rim	0.283040	0.000014	0.000041	0.000000	0.001868	0.000030	81.7	0.28304	9.5	11.3	0.5	-1.00	293	38	427	62
T16-77-11	Metamorphic rim	0.283088	0.000015	0.000035	0.000000	0.001651	0.000028	81.7	0.28309	11.2	13.0	0.5	-1.00	226	41	317	66
T16-77-12	Magmatic core	0.283102	0.000014	0.001049	0.000039	0.036791	0.001755	154.6	0.28310	11.7	15.0	0.5	-0.97	216	41	253	65
T16-77-13	Magmatic core	0.283125	0.000016	0.001010	0.000029	0.032511	0.000693	154.6	0.28312	12.5	15.8	0.6	-0.97	183	46	199	74
T16-77-14	Magmatic core	0.283120	0.000014	0.001286	0.000016	0.050383	0.000465	154.6	0.28312	12.3	15.6	0.5	-0.96	193	40	215	63
T16-77-15	Magmatic core	0.283106	0.000014	0.000989	0.000011	0.033490	0.000397	154.6	0.28310	11.8	15.1	0.5	-0.97	210	41	243	65
T16-77-16	Magmatic core	0.283076	0.000016	0.001222	0.000027	0.042641	0.000599	154.6	0.28307	10.7	14.0	0.6	-0.96	256	46	314	73
T16-77-17	Magmatic core	0.283106	0.000018	0.000940	0.000009	0.037184	0.000262	154.6	0.28310	11.8	15.1	0.6	-0.97	210	52	243	83
T16-77-18	Magmatic core	0.283106	0.000015	0.000828	0.000014	0.030828	0.000908	154.6	0.28310	11.8	15.1	0.5	-0.98	208	42	240	67
T16-77-19	Magmatic core	0.283130	0.000013	0.000955	0.000010	0.033510	0.000307	154.6	0.28313	12.6	15.9	0.5	-0.97	176	38	189	61
T16-77-20	Magmatic core	0.283125	0.000014	0.001439	0.000021	0.048895	0.000597	154.6	0.28312	12.5	15.7	0.5	-0.96	187	41	205	65
T16-77-21	Magmatic core	0.283134	0.000019	0.001425	0.000027	0.046877	0.000669	154.6	0.28313	12.8	16.0	0.7	-0.96	174	54	185	85
T16-77-11	Metamorphic rim	0.283111	0.000017	0.000074	0.000001	0.003677	0.000013	85.1	0.28311	12.0	13.8	0.6	-1.00	195	47	264	77
T16-77-11	Metamorphic rim	0.283073	0.000016	0.000078	0.000002	0.003829	0.000113	85.1	0.28307	10.6	12.5	0.6	-1.00	247	46	350	75
T16-77-11	Metamorphic rim	0.283051	0.000015	0.000195	0.000002	0.009379	0.000036	85.1	0.28305	9.9	11.7	0.5	-0.99	279	42	400	69
T16-77-11	Metamorphic rim	0.283150	0.000025	0.000236	0.000010	0.007147	0.000203	85.1	0.28315	13.4	15.2	0.9	-0.99	141	70	176	114
T16-77-11	Metamorphic rim	0.283094	0.000015	0.000124	0.000001	0.004832	0.000070	85.1	0.28309	11.4	13.3	0.5	-1.00	218	41	301	67
T16-77-11	Metamorphic rim	0.283076	0.000018	0.000122	0.000003	0.004348	0.000017	85.1	0.28308	10.8	12.6	0.7	-1.00	243	51	343	84
T16-77-11	Metamorphic rim	0.283124	0.000014	0.000148	0.000001	0.005837	0.000020	85.1	0.28312	12.5	14.3	0.5	-1.00	176	40	234	65
T16-77-11	Metamorphic rim	0.283116	0.000017	0.000350	0.000003	0.013664	0.000222	85.1	0.28312	12.2	14.0	0.6	-0.99	189	48	253	78
T16-77-11	Metamorphic rim	0.283117	0.000016	0.000417	0.000004	0.016056	0.000097	85.1	0.28312	12.2	14.0	0.6	-0.99	189	45	252	73
T16-77-11	Metamorphic rim	0.283134	0.000018	0.000173	0.000002	0.006841	0.000051	85.1	0.28313	12.8	14.7	0.6	-0.99	163	49	212	80
T16-77-11	Metamorphic rim	0.283138	0.000018	0.000236	0.000001	0.008550	0.000058	85.1	0.28314	12.9	14.8	0.6	-0.99	158	51	203	82
T16-77-11	Metamorphic rim	0.283114	0.000016	0.000186	0.000001	0.007895	0.000033	85.1	0.28311	12.1	13.9	0.6	-0.99	192	44	258	71
T16-77-11	Metamorphic rim	0.283116	0.000014	0.000303	0.000014	0.011074	0.000415	85.1	0.28312	12.2	14.0	0.5	-0.99	189	38	254	62
T16-77-11	Magmatic core	0.283118	0.000016	0.001066	0.000029	0.052763	0.001975	157.0	0.28312	12.2	15.6	0.6	-0.97	193	45	215	71
T16-77-11	Magmatic core	0.283070	0.000016	0.000816	0.000032	0.038470	0.001156	157.0	0.28307	10.6	13.9	0.6	-0.98	259	47	320	74
T16-77-11	Magmatic core	0.283085	0.000017	0.000860	0.000009	0.040675	0.000196	157.0	0.28308	11.1	14.4	0.6	-0.97	239	48	288	77
T16-77-11	Magmatic core	0.283106	0.000020	0.000952	0.000025	0.045415	0.001063	157.0	0.28310	11.8	15.2	0.7	-0.97	210	56	241	89
T16-77-11	Magmatic core	0.283123	0.000023	0.001476	0.000025	0.079291	0.001039	157.0	0.28312	12.4	15.7	0.8	-0.96	191	67	210	105
T16-77-11	Magmatic core	0.283106	0.000023	0.001103	0.000014	0.062797	0.000704	157.0	0.28310	11.8	15.2	0.8	-0.97	211	67	242	106
T16-77-11	Magmatic core	0.283122	0.000017	0.002173	0.000016	0.093780	0.001217	157.0	0.28312								

T17-1-26	Magmatic core	0.283049	0.000015	0.001584	0.000011	0.041657	0.000192	166.4	0.28304	9.8	13.3	0.5	-0.95	299	43	374	68
T17-1-26	Magmatic core	0.283039	0.000017	0.001451	0.000003	0.038749	0.000065	166.4	0.28303	9.4	12.9	0.6	-0.96	312	50	395	78
T17-1-26	Magmatic core	0.283034	0.000019	0.002628	0.000007	0.072653	0.000233	166.4	0.28303	9.3	12.6	0.7	-0.92	335	57	423	87
T17-1-26	Magmatic core	0.283071	0.000020	0.002316	0.000012	0.064387	0.000489	166.4	0.28306	10.6	14.0	0.7	-0.93	276	59	335	90
T17-1-26	Magmatic core	0.283035	0.000018	0.001989	0.000007	0.053912	0.000213	166.4	0.28303	9.3	12.8	0.6	-0.94	324	53	411	82
T17-1-26	Magmatic core	0.283053	0.000018	0.002023	0.000021	0.055778	0.000720	166.4	0.28305	9.9	13.4	0.6	-0.94	299	52	372	81
T17-1-26	Magmatic core	0.283044	0.000019	0.002687	0.000028	0.074674	0.000590	166.4	0.28304	9.6	13.0	0.7	-0.92	321	57	402	86
D120302	Magmatic core	0.282992	0.000016	0.001487	0.000028	0.040850	0.000998	168.3	0.28299	7.8	11.3	0.6	-0.96	380	46	500	72
D120302	Magmatic core	0.283002	0.000015	0.002643	0.000048	0.075592	0.001552	168.3	0.28299	8.1	11.5	0.5	-0.92	383	45	495	68
D120302	Magmatic core	0.282992	0.000016	0.001660	0.000009	0.045423	0.000307	168.3	0.28299	7.8	11.3	0.6	-0.95	383	46	504	73
D120302	Magmatic core	0.282983	0.000017	0.002089	0.000043	0.057932	0.001359	168.3	0.28298	7.5	10.9	0.6	-0.94	402	50	529	78
D120302	Magmatic core	0.283043	0.000021	0.002361	0.000059	0.065883	0.001588	168.3	0.28304	9.6	13.0	0.7	-0.93	318	62	398	95
D120302	Magmatic core	0.283003	0.000017	0.001338	0.000028	0.036636	0.000903	168.3	0.28300	8.2	11.7	0.6	-0.96	362	50	474	79
D120302	Magmatic core	0.282992	0.000020	0.001911	0.000029	0.052585	0.000633	168.3	0.28299	7.8	11.3	0.7	-0.94	386	58	506	91
D120302	Magmatic core	0.282985	0.000017	0.001256	0.000015	0.034064	0.000535	168.3	0.28298	7.5	11.1	0.6	-0.96	387	50	514	78
D120302	Magmatic core	0.282978	0.000018	0.002799	0.000038	0.077476	0.000925	168.3	0.28297	7.3	10.7	0.6	-0.92	421	55	551	83
D120303	Magmatic core	0.283011	0.000014	0.001172	0.000020	0.031255	0.000641	174.9	0.28301	8.5	12.2	0.5	-0.96	349	39	450	62
D120303	Magmatic core	0.282979	0.000014	0.001243	0.000012	0.033949	0.000367	174.9	0.28298	7.3	11.0	0.5	-0.96	395	39	523	62
D120303	Magmatic core	0.282972	0.000020	0.001737	0.000025	0.047492	0.000615	174.9	0.28297	7.1	10.7	0.7	-0.95	413	57	546	89
D120303	Magmatic core	0.283013	0.000019	0.002463	0.000081	0.067618	0.002380	174.9	0.28300	8.5	12.1	0.7	-0.93	365	55	465	84
D120303	Magmatic core	0.282983	0.000016	0.001749	0.000016	0.046806	0.000482	174.9	0.28298	7.5	11.1	0.6	-0.95	398	47	523	74
D120303	Magmatic core	0.282998	0.000017	0.001136	0.000011	0.030147	0.000439	174.9	0.28299	8.0	11.7	0.6	-0.97	366	49	478	78
D120303	Magmatic core	0.282998	0.000018	0.002127	0.000047	0.057695	0.001457	174.9	0.28299	8.0	11.6	0.6	-0.94	382	51	494	79
D120303	Magmatic core	0.282999	0.000020	0.002458	0.000012	0.066473	0.000404	174.9	0.28299	8.0	11.6	0.7	-0.93	385	60	496	92
D350612	Magmatic core	0.283118	0.000017	0.002286	0.000017	0.061172	0.000495	174.7	0.28311	12.2	15.8	0.6	-0.93	207	49	224	76
D350612	Magmatic core	0.283110	0.000015	0.001232	0.000013	0.031676	0.000436	174.7	0.28311	11.9	15.6	0.5	-0.96	208	43	227	68
D350612	Magmatic core	0.283116	0.000016	0.001860	0.000016	0.045140	0.000267	174.7	0.28311	12.2	15.8	0.6	-0.94	205	47	222	73
D350612	Magmatic core	0.283116	0.000015	0.001757	0.000013	0.043306	0.000342	174.7	0.28311	12.2	15.8	0.5	-0.95	205	45	221	70
D350612	Magmatic core	0.283126	0.000017	0.001658	0.000014	0.042291	0.000373	174.7	0.28312	12.5	16.2	0.6	-0.95	188	50	196	78
D350612	Magmatic core	0.283103	0.000015	0.002427	0.000036	0.058900	0.000867	174.7	0.28310	11.7	15.3	0.5	-0.93	230	45	259	69
D350612	Magmatic core	0.283104	0.000018	0.001950	0.000035	0.049443	0.000985	174.7	0.28310	11.8	15.4	0.6	-0.94	223	52	250	81
D350612	Magmatic core	0.283121	0.000016	0.003014	0.000024	0.072028	0.000558	174.7	0.28311	12.3	15.8	0.6	-0.91	210	48	227	72
D350612	Magmatic core	0.283131	0.000016	0.001735	0.000009	0.040948	0.000253	174.7	0.28313	12.7	16.3	0.6	-0.95	182	47	186	73
D350612	Magmatic core	0.283120	0.000015	0.001678	0.000006	0.038866	0.000092	174.7	0.28311	12.3	15.9	0.5	-0.95	198	44	210	68
D300613	Magmatic core	0.283085	0.000015	0.001179	0.000024	0.029519	0.000595	159.9	0.28308	11.1	14.5	0.5	-0.96	242	43	290	68
D300613	Magmatic core	0.283063	0.000015	0.002836	0.000014	0.071229	0.000246	159.9	0.28305	10.3	13.5	0.5	-0.91	293	46	362	69
D300613	Magmatic core	0.283047	0.000015	0.002344	0.000027	0.057877	0.000500	159.9	0.28304	9.7	13.0	0.5	-0.93	311	45	392	68
D300613	Magmatic core	0.283067	0.000016	0.002648	0.000009	0.066789	0.000172	159.9	0.28306	10.4	13.7	0.6	-0.92	285	47	351	72
D300613	Magmatic core	0.283053	0.000017	0.002253	0.000006	0.056621	0.000235	159.9	0.28305	9.9	13.2	0.6	-0.93	301	50	377	77
D300613	Magmatic core	0.283061	0.000018	0.001514	0.000017	0.033475	0.000287	159.9	0.28306	10.2	13.6	0.7	-0.95	280	53	349	84
D300613	Magmatic core	0.283051	0.000025	0.001550	0.000030	0.036865	0.000657	159.9	0.28305	9.9	13.2	0.9	-0.95	295	71	372	112
D300613	Magmatic core	0.283064	0.000016	0.001136	0.000034	0.029049	0.001057	159.9	0.28306	10.3	13.7	0.6	-0.97	271	47	337	75
D300613	Magmatic core	0.283054	0.000016	0.002066	0.000011	0.051900	0.000326	159.9	0.28305	10.0	13.3	0.6	-0.94	298	48	374	74
D300613	Magmatic core	0.283061	0.000019	0.000976	0.000015	0.021011	0.000276	159.9	0.28306	10.2	13.6	0.7	-0.97	274	55	341	88

Table S4 Whole-rock chemical compositions of the stuided Jurassic magmatic rocks of the eastern Gangdese arc

	Sample	Rock	Protolith age (in Ma)	Major element (wt%)				FeO	TFe2O3	TFeO	MnO	MgO	CaO	Na2O	K2O	P2O5	H2O	LOI	Total	A/CNK	A/NK	Mg#	Trace element (ppm)				
				SiO2	TiO2	Al2O3	Fe2O3																Hf	Zr	V	Sc	Co
1	TM07-50-2	Grt Ep gneiss	165	74.06	0.33	12.22	2.18	1.45		3.41	0.09	1.03	2.97	3.80	0.41	0.06	0.52	0.56	99.68	1.01	1.83	0.35	2.3	100	37	6.8	13.1
2	TM08-20-2	Grt amphibolite	166	47.08	0.84	17.84	4.98	7.38		11.86	0.25	5.43	11.16	2.30	0.20	0.20	0.76	1.77	100.20	0.73	4.46	0.45	1.8	40	336	50.9	36.0
3	TM08-20-4	Grt gneiss	163	69.89	0.18	16.18	0.96	1.44		2.30	0.07	0.86	4.36	4.46	0.50	0.08	0.56	0.92	100.46	1.02	2.05	0.40	2.1	48	36	4.4	4.0
4	T16-77-6	Grt-rich leucosome	155	65.23	0.09	11.29	1.80	10.83		12.45	0.77	3.31	3.74	0.56	0.32	0.05	0.98	0.05	98.92	1.40	8.91	0.32	8.7	387	99	59.6	18.8
5	T16-77-11	Amphibolite	157	58.51	0.63	15.29	2.74	5.01		7.48	0.18	4.29	7.59	2.80	1.14	0.09	1.27	0.70	100.24	0.78	2.62	0.51	2.0	64	224	28.7	26.1
6	T16-77-14	Grt Bt gneiss	147	65.82	0.55	14.36	2.14	3.07		5.00	0.10	2.46	5.12	2.89	1.60	0.10	0.67	0.59	99.47	0.91	2.21	0.47	2.4	77	140	18.6	14.9
7	T16-91-32	Amp Bt gneiss	163	57.17	1.07	17.55			8.01	7.21	0.16	3.44	5.63	3.40	2.45	0.26		0.56	99.67	0.95	2.13	0.46	3.8	143	159	16.2	17.9
8	T16-91-34	Amphibolite	170	53.32	1.06	17.62	7.84	2.42		9.48	0.25	4.14	5.04	3.57	3.11	0.32	0.83	0.48	100.00	0.96	1.91	0.44	6.4	281	31	10.4	5.3
9	T17-01-25	Ep Amp gneiss	161	68.37	0.55	13.89	1.81	2.80		4.43	0.08	2.04	4.73	3.48	0.91	0.08	0.52	0.58	99.84	0.91	2.07	0.45	4.7	162	102	11.9	14.3
10	T17-01-26	Ep Amp gneiss	166	60.09	0.66	15.60	2.86	3.95		6.52	0.11	3.63	6.38	3.43	1.23	0.15	0.80	0.77	99.66	0.84	2.24	0.50	3.7	121	165	17.8	21.4
11	T17-01-34	Amphibolite	145	48.60	0.93	18.87	4.29	5.48		9.34	0.18	4.40	9.17	4.27	1.22	0.44	0.94	0.72	99.51	0.75	2.26	0.46	2.4	83	293	19.7	26.4
12	D120301	Ep Bt gneiss	175	64.26	0.44	18.12			3.21	2.89	0.05	1.47	3.76	6.24	1.19	0.08		0.51	99.33	0.98	1.57	0.48	6.2	222	53	6.9	5.7
13	D120302	Amphibolite	168	43.94	1.27	18.98			13.71	12.34	0.25	5.18	11.10	3.26	0.62	0.60		0.86	99.75	0.72	3.15	0.43	1.5	33	274	23.7	30.3
14	D120303	Bt gneiss	175	75.60	0.34	12.79			2.12	1.91	0.05	0.63	3.43	4.28	0.32	0.04		0.37	99.97	0.94	1.73	0.37	4.0	143	27	5.9	5.4
15	D350612	Ep amphibolite	175	59.72	0.53	15.36			7.87	7.09	0.14	4.37	7.40	3.08	0.14	0.05		1.69	100.36	0.82	2.94	0.52	1.4	41	200	27.9	23.8
16	D350613	Ep Bt Pl gneiss	160	70.05	0.16	16.70			1.79	1.61	0.08	0.53	4.08	5.19	0.56	0.06		0.64	99.84	1.01	1.82	0.37	1.6	63	21	2.0	1.3

REE (ppm)																												
Cu	Zn	Ni	Ga	Rb	Nb	Ta	Ba	Pb	Th	U	Cr	Sr	Y	Sr/Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
90.0	38	6.9	12.5	8.1	0.5	0.1	77	2.3	0.3	0.4	3.9	171	25.1	6.8	3.2	9.1	1.3	6.5	2.1	0.5	3.3	0.6	4.5	1.0	3.0	0.5	3.1	0.5
64.2	125	11.0	22.3	3.3	0.3	0.0	83	3.4	0.2	0.1	37.7	419	14.0	30.0	7.6	15.1	2.3	9.9	2.5	1.2	2.6	0.5	2.4	0.5	1.4	0.3	1.5	0.2
3.3	36	3.2	15.2	7.0	0.2	0.0	605	7.2	0.1	0.2	7.8	594	4.4	134.1	2.4	4.4	0.6	2.7	0.7	0.3	0.7	0.1	0.7	0.1	0.4	0.1	0.4	0.1
84.3	33	2.1	6.3	7.4	0.4	0.1	101	1.2	0.8	0.6	43.8	46	125	0.4	2.2	3.5	0.4	1.9	1.6	0.6	5.5	1.6	14.8	4.2	15.2	2.6	20.0	3.3
33.9	123	28.8	15.2	14.9	3.1	0.2	345	10.3	2.7	0.6	82.8	213	23.4	9.1	10.8	23.2	3.0	12.6	3.1	0.8	3.4	0.6	3.8	0.8	2.5	0.4	2.5	0.4
19.7	68	14.6	14.9	53.5	4.1	0.2	664	7.4	5.8	0.3	40.7	253	26.8	9.4	17.5	35.8	4.5	18.7	4.4	0.9	4.5	0.7	4.6	1.0	2.8	0.4	2.5	0.4
14.6	98	9.8	19.1	147.7	12.0	1.0	270	6.6	5.0	2.6	2.8	362	33.9	10.7	20.9	43.8	5.4	22.7	5.5	1.5	5.2	0.9	5.8	1.2	3.4	0.5	3.4	0.5
13.6	31	10.2	9.8	82.8	11.9	0.6	159	10.0	12.2	2.1	15.4	115	32.4	3.5	32.1	60.6	7.1	26.4	4.8	1.1	4.2	0.7	5.0	1.2	3.6	0.5	3.6	0.5
131.0	50	13.5	12.3	20.6	2.2	0.1	542	5.8	3.4	0.3	17.5	326	16.2	20.1	7.9	19.0	2.6	12.1	2.8	0.7	3.1	0.5	3.0	0.7	1.9	0.3	2.0	0.3
56.4	65	27.5	15.0	27.2	2.4	0.2	656	6.9	1.9	0.4	49.0	306	18.6	16.5	13.6	31.0	3.9	16.3	3.4	0.9	3.7	0.6	3.6	0.8	2.4	0.3	2.4	0.4
114.0	94	17.8	20.4	6.9	2.7	0.1	451	6.3	0.2	0.1	8.4	896	18.7	47.9	14.4	34.8	4.9	22.2	4.9	1.5	4.5	0.7	3.8	0.8	2.1	0.3	2.0	0.3
7.1	41	6.5	19.2	23.9	17.7	0.6	603	13.0	10.0	2.1	7.1	809	19.6	41.4	41.7	83.6	9.6	36.8	6.9	1.7	5.4	0.8	3.9	0.7	1.9	0.3	1.7	0.3
18.5	128	10.3	23.3	6.0	7.0	0.4	58	4.0	1.1	0.7	7.3	571	32.4	17.6	9.5	27.3	4.3	21.7	5.8	1.7	5.7	1.0	5.5	1.2	3.1	0.5	2.9	0.4
76.1	23	1.1	14.2	2.1	13.5	0.8	118	6.9	16.0	0.4	0.9	350	11.8	29.7	66.5	132.7	14.8	53.6	7.9	1.4	4.8	0.5	2.6	0.4	1.2	0.1	1.0	0.2
31.7	63	14.0	15.7	1.2	0.4	0.0	19	1.6	0.3	0.1	7.0	131	20.0	6.6	1.9	5.6	0.9	5.1	1.9	0.6	2.6	0.5	3.1	0.7	2.0	0.3	2.2	0.3
4.2	25	1.6	16.2	9.0	0.5	0.0	468	7.8	0.1	0.2	0.8	651	4.2	155.9	4.2	7.5	0.8	3.2	0.6	0.4	0.6	0.1	0.6	0.1	0.4	0.1	0.5	0.1

Table S5 Whole-rock chemical compositions of the Mesozoic magmatic rocks of the eastern Gangdese arc

TM07-43-1	93°5448″	29°0906″	87.0	58.36	0.69	17.51	2.89	3.64	6.25	0.11	3.46	6.43	3.95	1.96	0.19	0.30	0.25	99.74	0.86	2.03	0.50	1.47	123	136	13.6	23.1	12.0	18.5	51.0	3.45	0.19	357	10.8	2.70	0.50	22.3	531	15.5	34.3	14.1	28.6	3.58	14.1	3.05	0.91	3.47	0.51	2.91	0.56	1.54	0.22	1.36	0.21	Zhang et al., 2020	
TM08-4-1	93°5956″	29°1113″	87.0	57.48	0.62	16.35	2.85	4.53	7.10	0.15	4.62	6.85	3.56	1.43	0.17	0.40	1.22	100.23	0.82	2.21	0.54	5.70	86	167	18.8	24.6	12.0	18.5	51.0	3.45	0.19	345	8.90	2.07	0.47	92.1	494	14.9	33.1	15.0	29.2	4.08	17.6	4.20	1.18	3.31	0.62	3.23	0.67	1.81	0.28	1.61	0.27	Zhang et al., 2020	
TM08-8-3	93°5451″	29°0803″	87.0	55.22	0.75	17.88	3.30	4.57	7.54	0.11	4.03	7.33	3.82	1.33	0.25	0.48	0.78	99.92	0.85	2.29	0.49	4.27	88	183	19.3	24.8	17.6	19.6	37.2	3.68	0.24	283	10.5	3.80	1.10	30.6	529	14.3	37.0	14.4	27.5	3.63	15.0	3.25	1.03	2.70	0.48	2.56	0.55	1.47	0.22	1.32	0.21	Zhang et al., 2020	
TM08-10-1	93°5018″	29°0733″	87.0	55.62	0.65	18.03	3.03	4.60	7.33	0.14	3.76	7.11	3.83	1.33	0.19	0.76	1.35	100.40	0.87	2.33	0.48	4.93	70	168	20.3	24.8	12.3	19.7	26.5	2.73	0.21	270	11.2	1.99	0.59	13.5	424	15.6	37.2	12.8	25.2	4.44	15.0	3.05	1.01	2.87	0.53	2.66	0.58	1.69	0.27	1.73	0.28	Zhang et al., 2020	
T09-38-1	93°5221″	29°0552″	87.0	58.14	0.54	18.12	2.55	4.40	6.34	0.14	3.16	6.72	4.40	1.07	0.19	0.65	0.33	99.65	0.91	2.34	0.47	1.18	36	158	13.3	22.1	30.1	19.8	21.5	2.27	0.16	234	10.7	2.29	0.63	41.5	600	12.3	48.8	12.1	25.1	3.19	12.7	2.76	0.88	2.56	0.38	2.36	0.47	1.46	0.22	1.33	0.22	Zhang et al., 2020	
T16-77-10	94°0603″	29°1236″	87.0	65.21	0.47	15.70	1.48	3.39	4.72	0.13	1.81	5.67	3.16	0.96	0.14	1.31	0.81	100.24	0.95	2.52	0.41	1.18	39	155	21.7	14.1	4.2	6.8	16.6	16.0	1.70	0.08	200	18.2	0.59	0.21	9.4	175	23.7	7.4	5.63	12.7	1.78	8.6	2.66	0.85	3.41	0.60	4.07	0.89	2.64	0.40	2.85	0.44	Zhang et al., 2020
T16-76-28	94°0549″	29°1231″	88.0	49.38	1.15	16.48	5.29	7.96	12.72	0.27	5.30	6.66	3.01	1.38	0.14	1.71	1.31	100.04	0.89	2.56	0.43	1.88	61	422	35.6	40.7	14.8	19.3	27.5	2.14	0.14	158	4.08	1.82	0.28	14.9	204	25.4	8.0	10.9	25.2	3.59	16.6	4.24	1.31	4.48	0.71	2.80	0.41	2.81	0.43	Zhang et al., 2020			
T16-77-1	94°0559″	29°1238″	88.0	54.15	0.84	16.87	2.73	5.62	8.08	0.17	3.74	7.16	3.17	2.73	0.30	1.38	1.33	100.19	0.80	2.06	0.45	3.64	133	230	20.2	25.0	17.8	19.4	45.0	7.78	0.32	470	10.1	1.33	0.17	29.4	599	23.4	25.6	24.7	51.3	6.64	27.5	5.87	14.0	5.08	0.73	4.25	0.88	2.45	0.36	2.45	0.36	Zhang et al., 2020	
T16-76-41	94°0552″	29°1239″	88.0	51.40	0.82	18.69	3.47	5.41	8.31	0.13	4.30	8.22	4.17	0.70	0.25	1.18	1.06	100.01	0.83	2.45	0.47	1.87	68	215	20.0	29.9	20.2	22.1	9.1	3.13	0.14	231	6.85	0.61	0.18	28.1	606	21.7	27.9	11.6	26.5	3.75	16.9	4.07	1.26	4.01	0.63	3.95	0.79	2.23	0.31	2.06	0.30	Zhang et al., 2020	
T16-77-4	94°0700″	29°1224″	88.0	48.39	1.02	21.25	4.06	7.62	9.93	0.17	3.59	7.50	4.12	1.65	0.44	1.14	0.97	100.57	0.86	2.48	0.39	2.60	144	176	15.3	35.8	14.0	26.6	46.0	3.33	0.23	367	8.96	0.37	0.26	12.0	766	17.8	43.0	14.1	31.3	3.96	16.9	3.72	1.37	4.18	0.62	3.51	0.63	1.74	0.25	1.49	0.23	Zhang et al., 2020	
TM07-47-5	94°0700″	29°1224″	88.0	52.56	0.79	20.73	3.28	4.33	7.28	0.12	3.20	7.33	4.84	0.75	0.33	1.34	1.25	100.85	0.94	2.36	0.44	1.54	122	102	6.06	23.8	9.05	22.8	4.38	3.32	0.24	179	12.2	0.96	0.19	7.2	841	18.2	46.2	17.0	37.1	5.11	23.0	5.22	1.67	5.45	0.77	3.83	0.72	2.03	0.31	1.85	0.30	Zhang et al., 2020	
TM08-8-2	93°5426″	29°0804″	88.0	61.62	0.59	16.37	2.63	3.28	5.65	0.10	2.97	5.53	3.64	2.36	0.16	0.40	0.58	100.23	0.88	1.92	0.48	6.76	105	117	14.7	18.4	15.4	18.2	57.7	3.76	0.23	428	14.0	1.43	0.38	24.4	420	13.5	31.2	13.4	26.2	3.48	14.1	3.10	0.92	2.61	0.45	2.47	0.53	1.37	0.23	1.43	0.21	Zhang et al., 2020	
T16-77-5	94°0600″	29°1237″	89.0	46.84	1.21	19.51	2.95	8.10	10.76	0.15	4.78	8.76	3.66	1.91	0.29	1.44	0.69	99.89	0.81	2.41	0.44	2.19	79	275	21.3	32.1	12.2	22.7	44.4	4.23	0.16	289	6.55	2.29	0.33	5.6	576	23.2	24.8	14.3	31.4	4.31	19.4	4.92	1.55	4.94	0.74	4.50	0.86	2.32	0.33	2.12	0.30	Zhang et al., 2020	
TM07-43-8	93°5451″	29°0903″	89.0	58.57	0.64	17.30	2.83	3.48	6.03	0.12	3.65	6.24	3.87	1.53	0.17	0.58	0.57	99.55	0.89	2.16	0.52	2.59	115	147	18.5	18.9	18.9	18.4	34.0	2.84	0.22	407	11.2	1.63	0.48	33.4	454	15.1	30.1	11.6	25.5	3.13	12.8	2.92	0.86	2.67	0.41	2.43	0.49	1.40	0.21	1.36	0.22	Zhang et al., 2020	
TM08-6-1	93°5448″	29°0954″	89.0	56.44	0.59	17.44	2.90	4.48	7.09	0.13	3.87	7.26	3.71	1.22	0.26	0.45	1.20	99.95	0.84	2.35	0.49	5.10	85	153	16.7	22.7	19.3	19.7	31.4	2.37	0.15	292	10.6	2.03	0.56	41.2	607	15.0	40.6	15.5	29.8	4.16	17.3	3.79	1.11	3.23	0.52	2.84	0.61	1.54	0.24	1.51	0.22	Zhang et al., 2020	
TM08-7-1	93°5445″	29°0656″	89.0	54.06	0.65	18.94	3.35	4.65	7.67	0.14	4.22	7.71	4.23	0.80	0.25	0.28	0.58	99.76	0.87	2.42	0.50	5.77	110	172	21.3	27.5	16.0	22.5	10.9	3.86	0.28	226	10.2	2.02	0.54	36.2	611	16.3	37.5	13.9	28.6	3.98	16.8	3.68	1.11	3.24	0.57	2.79	0.61	1.62	0.25	1.61	0.24	Zhang et al., 2020	
T16-76-30	94°0550″	29°1236″	89.0	63.72	0.67	12.60	0.73	4.98	5.64	0.09	4.98	6.02	2.91	0.51	0.10	1.57	1.33	100.21	0.77	2.36	0.61	3.01	102	148	18.3	25.2	15.9	13.9	11.1	6.64	0.48	66	9.87	31.4	1.26	438.0	520	20.3	25.6	34.6	61.3	7.11	26.9	4.89	1.09	4.33	0.65	3.80	0.76	2.08	0.30	2.03	0.30	Zhang et al., 2020	
TM07-46-6	94°0424″	29°1248″	89.0	47.89	1.14	19.11	1.79	10.29	11.91	0.25	5.87	8.25	3.23	0.64	0.37	0.76	0.26	99.85	0.91	3.18	0.47	1.92	142	178	28.0	30.7	8.27	21.4	15.4	5.04	0.33	157	5.66	0.89	0.33	6.3	1425	37.3	38.2	16.8	37.9	7.13	23.1	5.95	2.03	8.21	1.43	8.27	1.64	4.61	0.65	4.39	0.71	Zhang et al., 2020	
T09-39-1	93°5330″	29°0229″	90.0	60.34	0.56	17.21	2.46	3.56	5.77	0.12	2.71	5.66	4.15	2.38	0.18	0.55	0.59	100.47	0.87	1.83	0.46	2.28	78	136	14.3	19.4	19.3	19.1	62.3	3.35	0.22	190	12.6	2.47	0.68	24	456	15.9	28.7	9.24	20.8	3.08	13.6	3.52	0.65	3.44	0.53	3.18	0.65	1.84	0.24	1.64	0.26	Zhang et al., 2020	
T16-76-1	94°0538″	29°1229″	90.0	52.11	0.85	18.77	3.85	4.94	8.41	0.12	4.09	8.49	3.55	0.63	0.25	1.60	1.43	100.68	0.85	2.88	0.46	1.99	72	215	19.9	27.6	16.6	21.9	5.66	4.06	0.35	184	8.46	1.05	0.20	25	634	24.0	26.4	11.5	26.7	3.90	17.6	4.23	1.24	4.25	0.68	4.27	0.89	2.56	0.38	2.46	0.36	Zhang et al., 2020	
TM07-43-4	93°5449″	29°0909″	90.0	62.73	0.47	15.93	2.76	2.46	4.94	0.10	2.80	5.24	3.87	1.48	0.14	1.22	1.25	100.45	0.91	2.00	0.50	0.86	66	104	9.86	15.8	8.92	17.6	34.0	2.19	0.28	319	9.37	1.09	0.26	17	487	11.3	43.1	10.4	20.2	2.61	10.3	2.42	0.82	2.74	0.41	2.42	0.48	1.30	0.19	1.18	0.18	Zhang et al., 2020	
T10-95-1	93°5453″	29°1112″	90.0	54.17	0.76	17.71	4.50	3.68	7.73	0.15	4.40	8.04	3.82	1.04	0.24	0.64	0.61	99.76	0.80	2.39	0.50	2.24	78	221	25.5	23.4	21.4	18.9	19.0	3.19	0.25	188	8.39	4.83	1.17	34	578	15.3	37.8	14.2	30.6	4.02	17.0	3.75	1.18	3.28	0.46	2.81	0.59	1.69	0.25	1.59	0.24	Zhang et al., 2020	
T16-76-19	94°0434″	29°1229″	90.0	49.40	0.93	19.79	3.99	6.20	9.79	0.19	3.82	8.34	4.01	0.73	0.32	1.12	0.86	99.70	0.88	2.68	0.41	1.40	48	209	15.8	27.6	16.0	22.0	7.14	2.89	0.15	204	6.72	0.46	0.18	21	713	20.1	35.5	11.3	26.4	3.79	17.4	4.13	1.31	4.09	0.61	3.66	0.54	2.09	0.30	1.97	0.29	Zhang et al., 2020	
T16-76-13	94°0541″	29°1233″	91.0	48.96	0.78	20.75	3.09	6.59	9.37	0.23	3.32	3.96	3.84	4.44	0.62	0.29	1.38	1.05	100.44	0.90	2.60	0.43	1.72	38	192	16.0	26.0	12.6	21.5	5.38	2.56	0.12	143	6.46	0.27	0.09	7.8	789	19.3	40.8	8.33	19.9	2.95	13.9	3.59	1.21	3.66	0.57	3.50	0.72	0.22	0.29	1.98	0.30	Zhang et al., 2020

Table S6 Whole-rock SiO₂ and Cu concentrations of the Late Cretaceous magmatic rocks of the eastern Gangdese arc

	Sample	Rock	Latitude	Longitude	SiO ₂ (wt%)	Cu (ppm)
1	T17-01-2-2	Garnet amphibolite	29°12'38.05"	94°5'59.70"	49.65	76
2	T17-01-7	Garnet amphibolite	29°12'38.05"	94°5'59.70"	41.60	222
3	T17-01-9	Amphibolite	29°12'38.05"	94°5'59.70"	48.02	66
4	T17-01-10	Garnet amphibolite	29°12'38.05"	94°5'59.70"	49.62	52
5	T17-01-14	Garnet amphibolite	29°12'38.05"	94°5'59.70"	43.29	263
6	T17-01-28	Garnet amphibolite	29°12'38.05"	94°5'59.70"	44.91	31
7	T17-01-34	Amphibolite	29°12'38.05"	94°5'59.70"	48.60	114
8	T17-01-35	Amphibolite	29°12'38.05"	94°5'59.70"	51.26	164
9	T17-01-36	Ep amphibolite	29°12'38.05"	94°5'59.70"	52.55	85
10	T17-01-41	Garnet amphibolite	29°12'38.05"	94°5'59.70"	46.93	67
11	T17-01-55	Amphibolite	29°12'38.05"	94°5'59.70"	47.78	58
12	T17-01-57	Garnet amphibolite	29°12'38.05"	94°5'59.70"	39.71	207
13	T17-01-58	Amphibolite	29°12'38.05"	94°5'59.70"	48.28	15
14	T17-01-59	Garnet amphibolite	29°12'38.05"	94°5'59.70"	47.01	132
15	T17-01-60	Amphibolite	29°12'38.05"	94°5'59.70"	46.30	80
16	T17-01-61	Amphibolite	29°12'38.05"	94°5'59.70"	47.46	210
17	T17-01-62	Amphibolite	29°12'38.05"	94°5'59.70"	45.99	98
18	T17-01-63	Amphibolite	29°12'38.05"	94°5'59.70"	46.67	184
19	T17-9-4	Amphibolite	29°12'10.37"	93°58'39.02"	50.47	179
20	T17-9-14	Amphibolite	29°12'10.37"	93°58'39.02"	48.39	575
21	T17-9-15	Amphibolite	29°12'10.37"	93°58'39.02"	48.70	545
22	T17-9-18	Amphibolite	29°12'10.37"	93°58'39.02"	43.02	193
23	T17-10-2	Amphibolite	29°12'14.14"	93°56'42.34"	54.69	86
24	T17-11-1	Garnet amphibolite	29°19'25.68"	94°20'06.35"	40.55	115
25	T17-11-2	Garnet amphibolite	29°19'25.68"	94°20'06.35"	40.74	705
26	T17-11-5	Garnet amphibolite	29°19'25.68"	94°20'06.35"	43.23	240
27	T17-11-9	Garnet amphibolite	29°19'25.68"	94°20'06.35"	52.34	4
28	T17-11-12	Garnet amphibolite	29°19'25.68"	94°20'06.35"	42.85	129
29	T17-11-17	Garnet amphibolite	29°19'25.68"	94°20'06.35"	40.94	136
30	T17-11-19	Garnet amphibolite	29°19'25.68"	94°20'06.35"	44.24	126
31	T17-11-20	Amphibolite	29°19'25.68"	94°20'06.35"	51.05	122
32	T17-11-21	Amphibolite	29°19'25.68"	94°20'06.35"	55.40	5
33	T17-11-28	Amphibolite	29°19'25.68"	94°20'06.35"	51.00	3
34	T17-11-29	Garnet amphibolite	29°19'25.68"	94°20'06.35"	46.83	144
35	T17-11-39	Garnet amphibolite	29°19'25.68"	94°20'06.35"	47.70	25
36	T17-19-2	Amphibolite	29°8'28.18"	93°54'56.66"	55.22	519
37	T17-19-3	Amphibolite	29°8'28.18"	93°54'56.66"	55.99	111
38	T17-19-8	Amphibolite	29°8'28.18"	93°54'56.66"	55.49	114
39	T17-22-2	Amphibolite	29°8'20.62"	93°51'23.47"	57.07	148
40	T17-22-3	Amphibolite	29°8'20.62"	93°51'23.47"	52.51	377
41	T17-22-4	Amphibolite	29°8'20.62"	93°51'23.47"	52.10	1069
42	T17-22-7	Amphibolite	29°8'20.62"	93°51'23.47"	52.80	529
43	T17-22-9	Amphibolite	29°8'20.62"	93°51'23.47"	51.40	111
44	T17-23-1	Amphibolite	29°12'1.07"	93°54'00.42"	49.80	42
45	T17-23-2	Amphibolite	29°12'1.07"	93°54'00.42"	50.07	3
46	T17-23-4	Amphibolite	29°12'1.07"	93°54'00.42"	47.99	352
47	T17-23-5	Amphibolite	29°12'1.07"	93°54'00.42"	49.82	55
48	T17-23-29	Amphibolite	29°12'1.07"	93°54'00.42"	44.00	34
49	T17-26-1	Garnet amphibolite	29°12'17.50"	94°7'33.20"	49.17	82
50	T17-26-3	Garnet amphibolite	29°12'17.50"	94°7'33.20"	51.93	62
51	T17-26-5	Garnet amphibolite	29°12'17.50"	94°7'33.20"	49.26	29
52	T16-76-1	Amphibolite	29°12'29.30"	94°5'38.67"	52.11	90
53	T16-76-2	Amphibolite	29°12'29.30"	94°5'38.67"	49.45	24
54	T16-76-3	Garnet amphibolite	29°12'29.30"	94°5'38.67"	53.38	99
55	T16-76-4	Garnet amphibolite	29°12'29.30"	94°5'38.67"	43.67	398
56	T16-76-5	Garnet amphibolite	29°12'29.30"	94°5'38.67"	43.69	351
57	T16-76-6	Garnet amphibolite	29°12'29.30"	94°5'38.67"	48.23	62
58	T16-76-7	Garnet amphibolite	29°12'29.30"	94°5'38.67"	47.19	475
59	T16-76-8	Garnet amphibolite	29°12'29.30"	94°5'38.67"	42.98	235
60	T16-76-9	Amphibolite	29°12'29.30"	94°5'38.67"	46.81	331
61	T16-76-11	Amphibolite	29°12'29.30"	94°5'38.67"	49.71	67
62	T16-76-12	Garnet amphibolite	29°12'29.30"	94°5'38.67"	50.48	44
63	T16-76-13	Garnet amphibolite	29°12'29.30"	94°5'38.67"	48.96	7
64	T16-76-16	Garnet amphibolite	29°12'29.30"	94°5'38.67"	49.41	123
65	T16-76-18	Garnet amphibolite	29°12'29.30"	94°5'38.67"	51.68	50
66	T16-76-19	Garnet amphibolite	29°12'29.30"	94°5'38.67"	49.40	89
67	T16-76-25	Garnet amphibolite	29°12'29.30"	94°5'38.67"	53.77	26
68	T16-76-26	Garnet amphibolite	29°12'29.30"	94°5'38.67"	44.15	172
69	T16-76-28	Garnet amphibolite	29°12'29.30"	94°5'38.67"	49.38	517
70	T16-76-29	Garnet amphibolite	29°12'29.30"	94°5'38.67"	46.80	145
71	T16-76-32	Garnet amphibolite	29°12'29.30"	94°5'38.67"	45.85	237

72	T16-76-33	Garnet amphibolite	29°12'29.30"	94°5'38.67"	43.23	465
73	T16-76-34	Garnet amphibolite	29°12'29.30"	94°5'38.67"	46.96	135
74	T16-76-35	Garnet amphibolite	29°12'29.30"	94°5'38.67"	48.18	37
75	T16-76-36	Garnet amphibolite	29°12'29.30"	94°5'38.67"	54.27	77
76	T16-76-37	Garnet amphibolite	29°12'29.30"	94°5'38.67"	47.24	300
77	T16-76-38	Garnet amphibolite	29°12'29.30"	94°5'38.67"	48.21	70
78	T16-76-39	Garnet amphibolite	29°12'29.30"	94°5'38.67"	43.51	709
79	T16-76-41	Garnet amphibolite	29°12'29.30"	94°5'38.67"	51.40	76
80	T16-76-42	Garnet amphibolite	29°12'29.30"	94°5'38.67"	44.33	83
81	T16-76-45	Garnet amphibolite	29°12'29.30"	94°5'38.67"	43.67	46
82	T16-77-5	Garnet amphibolite	29°12'38.05"	94°5'59.70"	46.44	112
83	T16-77-11	Garnet amphibolite	29°12'38.05"	94°5'59.70"	58.51	34
84	T16-77-12	Garnet amphibolite	29°12'38.05"	94°5'59.70"	46.42	153
85	T16-77-16	Amphibolite	29°12'38.05"	94°5'59.70"	44.31	1004
86	T16-77-17	Garnet amphibolite	29°12'38.05"	94°5'59.70"	55.15	138
87	T16-77-18	Garnet amphibolite	29°12'38.05"	94°5'59.70"	49.43	4
88	T16-78-2	Amphibolite	29°13'19.29"	94°4'8.52"	46.94	46
89	T16-78-3	Garnet amphibolite	29°13'19.29"	94°4'8.52"	59.65	45
90	T16-78-4	Garnet amphibolite	29°13'19.29"	94°4'8.52"	44.20	42
91	T16-78-6	Amphibolite	29°13'19.29"	94°4'8.52"	45.75	17
92	T16-79-3	Amphibolite	29°14'35.24"	94°3'58.06"	54.07	121
93	T16-80-5-4	Garnet amphibolite	29°15'30.23"	94°2'0.47"	54.78	153
94	T16-80-11	Amphibolite	29°15'30.23"	94°2'0.47"	49.98	67
95	T16-81-1	Amphibolite	29°12'10.37"	93°58'39.02"	59.41	119
96	T16-81-2	Amphibolite	29°12'10.37"	93°58'39.02"	56.47	39
97	T16-81-6	Amphibolite	29°12'10.37"	93°58'39.02"	57.69	49
98	T16-81-10	Amphibolite	29°12'10.37"	93°58'39.02"	57.48	108
99	T16-81-13	Amphibolite	29°12'10.37"	93°58'39.02"	50.72	81
100	T16-82-1	Meta gabbro	29°12'14.14"	93°56'42.34"	51.24	41
101	T16-83-1	Amphibolite	29°12'1.07"	93°54'00.42"	51.96	148
102	T16-83-3	Amphibolite	29°12'1.07"	93°54'00.42"	53.68	6
103	T16-83-5	Meta gabbro	29°12'1.07"	93°54'00.42"	48.74	43
104	T16-83-7	Amphibolite	29°12'1.07"	93°54'00.42"	45.32	132
105	T16-84-1	Amphibolite	29°10'40.89"	93°46'32.30"	52.70	35
106	T16-84-4	Garnet amphibolite	29°10'40.89"	93°46'32.30"	49.66	68
107	T16-84-6	Garnet amphibolite	29°10'40.89"	93°46'32.30"	46.72	363
108	T16-84-13	Amphibolite	29°10'40.89"	93°46'32.30"	50.04	41
109	T16-84-16	Amphibolite	29°10'40.89"	93°46'32.30"	54.99	67
110	T16-84-17	Amphibolite	29°10'40.89"	93°46'32.30"	52.93	7
111	T16-84-18	Amphibolite	29°10'40.89"	93°46'32.30"	51.31	257
112	T16-85-1	Amphibolite	29°9'40.98"	93°46'20.87"	54.35	7
113	T16-85-5	Garnet amphibolite	29°9'40.98"	93°46'20.87"	49.85	16
114	T16-86-2	Amphibolite	29°9'41.86"	93°44'13.65"	45.99	128
115	T16-88-4	Garnet amphibolite	29°19'30.60"	94°20'47.30"	41.47	77
116	T16-88-6	Garnet amphibolite	29°19'30.60"	94°20'47.30"	42.58	31
117	T16-88-7	Garnet amphibolite	29°19'30.60"	94°20'47.30"	41.86	73
118	T16-88-9	Garnet amphibolite	29°19'30.60"	94°20'47.30"	46.41	104
119	T16-88-11	Garnet amphibolite	29°19'30.60"	94°20'47.30"	48.50	43