

[Tectonics]

Supporting Information for

[Role of the Early Miocene Jinhe-Qinghe Thrust Belt in the building of the Southeastern Tibetan Plateau topography]

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Introduction

The U-Pb age dating was conducted by laser ablation inductively coupled plasma mass method (LA-ICP-MS) in State Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences, Wuhan. Standard sample 91500 were used as internal standard to correct the ages of zircon aliquots. We use ²⁰⁶Pb/²³⁸U ages for Zircons. Some zircons with low concordance value are seemed outliers and not used for weighted mean age calculation.

Table S1. U-Pb geochronologic analyses.

Sample No.	$^{207}\text{Pb}/^{206}\text{Pb}$ Age (Ma)	$^{207}\text{Pb}/^{206}\text{Pb}$ 1sigma	$^{207}\text{Pb}/^{235}\text{U}$ Age (Ma)	$^{207}\text{Pb}/^{235}\text{U}$ 1sigma	$^{206}\text{Pb}/^{238}\text{U}$ Age (Ma)	$^{206}\text{Pb}/^{238}\text{U}$ 1sigma	$^{208}\text{Pb}/^{232}\text{Th}$ Age (Ma)	$^{208}\text{Pb}/^{232}\text{Th}$ 1sigma
CD479-02-S	661.1	138.9	43.8	2.8	33.9	0.7	35.9	1.1
CD479-03-S	609.3	96.3	42.3	1.8	33.4	0.4	36.6	0.8
CD479-04-S	83.4	103.7	34.2	1.6	33.6	0.4	36.8	0.7
CD479-05-S	342.7	120.4	37.6	1.9	33.4	0.4	35.9	0.7
CD479-06-S	166.8	100.0	34.7	1.5	33.1	0.3	33.6	0.6
CD479-01	124.2	129.6	33.0	1.9	32.1	0.5	30.4	0.9
CD479-02	166.8	101.8	34.1	1.5	32.5	0.5	28.7	0.6
CD479-05	298.2	150.0	35.0	2.2	31.7	0.6	31.5	1.0
CD479-06	257.5	132.4	36.2	2.2	33.2	0.6	33.2	0.9
CD479-07	333.4	142.6	35.1	2.0	32.8	0.5	32.6	0.9
CD479-09	242.7	137.0	35.7	1.9	33.8	0.5	31.5	0.8
CD479-10	209.3	118.5	34.0	1.8	31.8	0.6	27.9	0.6
CD479-12	120.5	135.2	33.8	1.8	32.7	0.5	28.7	0.6
CD479-14	55.7	111.1	33.3	1.6	33.2	0.5	30.2	0.8
CD479-17	253.8	130.5	36.0	2.1	32.9	0.5	31.7	0.9
CD479-18	72.3	138.9	33.4	1.8	33.2	0.5	29.2	0.8
CD479-19	227.8	145.4	36.8	2.3	34.1	0.6	34.5	1.0
CD479-21	187.1	111.1	35.1	1.8	32.7	0.6	29.0	0.6
CD479-23	13.1	129.6	32.0	1.7	32.7	0.5	29.8	0.7
CD479-25	413.0	124.1	38.2	2.0	33.0	0.4	29.6	0.7