

Table S2. Site mean directions of the Weimei Formation volcanic rocks from Zhongba county in the central Tethyan Himalaya

Site ID	n	Strike/Dip(°)	D _g (°)	I _g (°)	D _s (°)	I _s (°)	k(°)	α_{95} (°)	Plat(°N)	Plon(°E)
WZ16	8	280/70	338.5	10.5	321.7	-46.5	90.1	5.9	21.8	299.9
WZ17				No reliable site mean direction						
WZ18	5	294/73	4.2	12.6	349.3	-54.6	55.4	10.4	24.4	273.3
WZ19	6	294/73	340.4	-33.2	263	-47.7	23.4	14.1	-19.4	330.9
WZ20	7	294/73	23.6	16.2	23.3	-56.9	25.1	12.3	19.4	244.3
WZ21				No reliable site mean direction						
WZ22				No reliable site mean direction						
WZ23	5	270/75	149	1.3	111.1	56.6	26.8	15	-2.9	311.8
WZ24	7	290/65	6.3	-5.2	348.5	-67.1	30	11.2	9.8	271.2
WZ25	7	286/76	347.4	11.4	326.5	-52	18.8	14.3	20.1	293.4
WZ26	6	70/70	186.8	-49.2	310	-53.8	28.8	12.7	10.5	303.7
WZ27	5	35/48	278	86.5	127.3	45.1	59.1	10	14.4	310.9
WZ28	6	35/48	113.1	-68.4	314.6	-62.9	23	14.3	5.2	294.5
WZ29	8	350/42	20.3	-74.1	283.7	-53.8	105.4	5.4	-6.3	317.5
*BB0	6	221/33	134.1	22.5	136.1	55.5	29.1	12.6	12.4	298.6
*BB1	10	221/33	127.6	23.3	125.4	56.3	73.2	5.7	6	304.6
*BB2	7	225/33	123.2	23.5	115.8	55.4	312.7	3.4	0.9	310.4
*BB3	9	225/33	125	21.2	119.1	53.5	128.3	4.6	4.2	310.1
*BB4	9	225/33	121.2	35.1	106	66.2	134.5	4.5	-12.3	304.2
*BB5	10	225/33	130.2	24.4	126.9	57.3	39.6	7.8	6.1	303
*BB6	5	225/33	142.1	19.3	145.9	51.9	28.5	14.6	19.9	293.8
*BB7	9	225/33	123.5	11.2	119.4	43.4	165.1	4	10	316.7
*BB11	7	225/33	123.4	25.9	115.2	57.8	22.7	13	-1.1	308.7
*BB12	8	225/33	129.4	30	124.5	62.7	23.9	11.6	0.5	299.9
*BB13	8	225/33	128.5	27	123.5	59.7	51.1	7.8	2.4	303
*BB14	5	225/33	123.1	40.9	104.4	72.1	52	10.7	-17.4	297
*BB15	6	225/33	125	46.8	99.9	78.1	79.6	7.6	-23.5	288.3
*BB18	6	225/33	324.4	-14.1	328.3	-46.5	18.7	15.9	25	294.5
*BB19	9	225/33	310.9	-20.9	308.5	-53.8	56.3	6.9	9.6	304.6
*BB20	10	225/33	324.6	8.2	325.5	-24.2	103.9	4.8	36.1	306.8
*BB21	9	225/33	322.4	2.7	323.6	-30	60.2	6.7	32.3	306
*BB22	5	225/33	299.4	-25.8	288.8	-56.9	47.5	11.2	-4.6	312.5
*BB25	7	225/33	298.5	-19.7	290.1	-50.8	20.3	13.7	-0.3	316.8
*BB30	5	229/33	119	32.9	100.8	62.3	33.6	13.4	-12.9	310.5
*WZ1	6	280/70	342	-10.8	294.7	-61.5	27.9	12.9	-3.9	305.8
*WZ2	7	280/70	343.2	-9.7	297.8	-62.2	79.7	6.8	-2.7	303.7
*WZ3	5	280/70	345	-10.1	298.7	-64	78.2	8.7	-3.6	301.6
*WZ4	5	280/70	346.1	-10.5	298.9	-65.1	83	8.4	-4.4	300.4
*WZ5	7	280/70	349.8	-19.7	277.5	-71	61.2	7.8	-20.1	300.5

*WZ6	6	280/70	340.3	-12.1	290.9	-60.5	25.7	13.5	-5.5	308.4
*WZ8	10	280/70	352.8	-11.2	305.3	-71.3	46.7	7.1	-7.4	291.2
*WZ9	10	280/70	340.4	-9	296.7	-59.3	71.6	5.7	-1.2	306.8
*WZ10	5	280/70	349.3	3.8	327.2	-58.7	85	8.3	14.4	289.3
*WZ14	5	280/70	346.9	-7.1	306.7	-64.2	108.3	7.4	0.3	297.6
*WZ15	7	280/70	343.8	-7.2	303.2	-61.6	54.7	8.2	0.7	301.6
Overall mean N=11 sites				356.2	-30.5	315.4	-58.4	17.2	11.3	
Overall mean N=11 VGPs								9.7°N, 296.3°E, $A_{95} = 16.1^\circ$		
Overall mean N=42 sites				328.4	-21.6	306.9	-58.7	28.7	4.2	
Overall mean N=42 VGPs								3.8°N, 301.5°E, $A_{95} = 5.4^\circ$		

Note: n, number of samples used to calculate the mean direction; Dg/Ig (Ds/Is), declination and inclination in geographic (stratigraphic) coordinates; k, the best estimate of the precision parameter; α_{95} (A_{95}), the radius that the mean direction (pole) lies within 95% confidence; Plat and Plon, latitude and longitude of the pole; *, the reported paleomagnetic data from the Weimei Formation volcanic rocks [23]; Data for the 11 sites are derived from WZ16-WZ29, while data for the 42 sites were derived from WZ1-WZ29 and BB0-BB30; VGP, virtual geomagnetic poles.