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Boschman, L.M., Molina Garza, R.S., Langereis, C.G., and van Hinsbergen, D.J.J., 2017, Paleomagnetic constraints on the kinematic relationship between the Guerrero terrane (Mexico) and North America since Early Cretaceous time: GSA Bulletin, https://doi.org/10.1130/B31916.1.

DATA REPOSITORY

1. Table DR1. Zircon ages per grain

2. Table DR2. Paleomagnetic data of compiled database

3. site_locations_DR.kmz: GPS coordinates paleomagnetic sampling sites

4. pmag_data_DR.pmag: paleomagnetic data for implementation in paleomagnetism.org

TABLE DR1. U-Pb DETRITAL ZIRCON DATA

				Corrected ratios										Corrected ages (Ma)						
Zircon	U[#] (ppm)	Th[#] (ppm)	Th/U	$^{207}Pb/^{206}Pb^{\dagger}$	err %[*]	$^{207}Pb/^{235}U^{\dagger}$	err %[*]	$^{206}Pb/^{238}U^{\dagger}$	err %[*]	$^{208}Pb/^{232}Th^{\dagger}$	err %[*]	Rho[**]	% disc.[***]	$^{206}Pb/^{238}U$	±2s[*]	$^{207}Pb/^{235}U$	±2s[*]	$^{207}Pb/^{206}Pb$	±2s[*]	Best age (Ma) ± 2s
AL4DZ Alberca sandstone																				
AL4DZ–81	446	361	0.81	0.05030	6.8	0.12530	6.1	0.01860	2.7	0.00540	5.6	0.437	2	118.8	3.1	120.8	7.2	190	140	118.8 ± 3.1
AL4DZ–77	423	290	0.69	0.05310	6.6	0.13520	7.1	0.01900	2.1	0.00570	5.3	0.296	6	121.2	2.8	128.4	8.7	290	140	121.2 ± 2.8
AL4DZ–70	640	435	0.68	0.04800	5.4	0.12520	5.0	0.01900	2.1	0.00580	3.4	0.418	-1	121.3	2.6	119.6	5.7	100	120	121.3 ± 2.6
AL4DZ–113	398	271	0.68	0.04880	5.5	0.13110	5.3	0.01900	2.6	0.00600	6.7	0.500	3	121.3	3.1	124.8	6.2	130	120	121.3 ± 3.1
AL4DZ–54	724	670	0.93	0.04860	5.1	0.13170	5.1	0.01920	2.1	0.00600	3.3	0.410	3	122.3	2.3	126.3	5.9	180	110	122.3 ± 2.3
AL4DZ–38	415	255	0.61	0.05030	6.8	0.13270	6.3	0.01930	2.6	0.00610	4.9	0.414	3	122.9	3.0	126.3	7.4	190	150	122.9 ± 3.0
AL4DZ–10	348	145	0.42	0.04810	6.7	0.12760	6.4	0.01940	2.6	0.00620	4.8	0.401	-2	123.5	3.0	121.6	7.4	110	140	123.5 ± 3.0
AL4DZ–61	510	335	0.66	0.05210	4.6	0.13960	4.6	0.01940	2.1	0.00610	4.9	0.450	7	123.8	2.7	132.6	5.7	300	110	123.8 ± 2.7
AL4DZ–96	886	525	0.59	0.04860	4.7	0.13260	4.4	0.01950	2.1	0.00560	3.6	0.469	2	124.2	2.6	126.3	5.2	130	100	124.2 ± 2.6
AL4DZ–57	312	136	0.44	0.05190	6.7	0.13980	5.9	0.01950	2.6	0.00660	6.1	0.432	8	124.3	3.0	135.2	6.7	290	130	124.3 ± 3.0
AL4DZ–36	416	188	0.45	0.04870	5.3	0.13130	4.6	0.01950	2.1	0.00640	4.7	0.449	1	124.4	2.6	125.1	5.4	140	120	124.4 ± 2.6
AL4DZ–31	418	242	0.58	0.04970	6.2	0.13480	4.8	0.01950	2.1	0.00620	4.8	0.425	3	124.8	2.5	128.2	5.8	200	120	124.8 ± 2.5
AL4DZ–44	353	244	0.69	0.04940	6.5	0.13240	6.2	0.01960	2.0	0.00610	4.9	0.330	1	124.8	2.8	126.0	7.4	170	140	124.8 ± 2.8
AL4DZ–82	780	907	1.16	0.05220	4.6	0.14050	4.1	0.01960	1.5	0.00580	3.4	0.377	6	124.9	2.2	133.3	5.1	290	110	124.9 ± 2.2
AL4DZ–73	613	594	0.97	0.04640	5.6	0.12470	5.1	0.01960	2.0	0.00620	3.2	0.398	-5	125.1	2.4	119.2	5.8	30	120	125.1 ± 2.4
AL4DZ–87	408	257	0.63	0.04850	7.0	0.13110	6.3	0.01960	2.0	0.00600	5.0	0.322	0	125.1	2.7	124.8	7.5	120	150	125.1 ± 2.7
AL4DZ–30	257	141	0.55	0.05150	7.0	0.13870	7.0	0.01960	2.6	0.00620	6.5	0.365	5	125.4	3.2	131.5	8.7	250	150	125.4 ± 3.2
AL4DZ–29	905	669	0.74	0.04990	5.4	0.13660	5.1	0.01970	2.5	0.00590	5.1	0.495	3	125.5	2.8	129.8	6.2	200	120	125.5 ± 2.8
AL4DZ–88	193	93	0.48	0.05120	9.0	0.13500	9.6	0.01970	3.0	0.00580	8.6	0.316	3	125.7	3.8	129.0	11.0	190	190	125.7 ± 3.8
AL4DZ–93	414	294	0.71	0.05030	5.4	0.13730	5.1	0.01970	2.0	0.00600	5.0	0.398	4	125.7	2.7	130.4	6.3	190	110	125.7 ± 2.7
AL4DZ–89	707	555	0.79	0.04900	5.5	0.13460	5.3	0.01970	2.0	0.00590	5.1	0.385	2	125.9	2.5	128.0	6.3	150	110	125.9 ± 2.5
AL4DZ–105	365	215	0.59	0.05130	7.0	0.13930	6.4	0.01970	2.5	0.00680	5.9	0.397	5	125.9	3.3	132.1	7.9	240	150	125.9 ± 3.3
AL4DZ–62	589	426	0.72	0.05160	5.4	0.13840	4.7	0.01980	2.0	0.00640	4.7	0.430	4	126.3	2.8	131.5	5.8	250	120	126.3 ± 2.8
AL4DZ–50	457	190	0.42	0.05020	6.8	0.13770	5.8	0.01980	2.5	0.00680	5.9	0.435	3	126.5	3.2	130.7	7.1	170	140	126.5 ± 3.2
AL4DZ–24	625	363	0.58	0.05170	5.6	0.14050	5.5	0.01980	2.5	0.00670	4.5	0.461	6	126.6	3.1	134.3	7.0	260	130	126.6 ± 3.1
AL4DZ–79	370	278	0.75	0.04930	6.1	0.13590	5.7	0.01990	2.5	0.00600	5.0	0.443	2	126.8	3.0	129.1	6.9	160	120	126.8 ± 3.0
AL4DZ–39	157	74	0.47	0.05290	9.8	0.14700	8.8	0.01990	3.5	0.00630	7.9	0.398	8	126.9	4.2	138.0	12.0	330	210	126.9 ± 4.2
AL4DZ–16	489	385	0.79	0.04700	7.2	0.12650	6.7	0.01990	2.0	0.00620	4.8	0.299	-5	127.2	2.6	120.6	7.6	30	150	127.2 ± 2.6
AL4DZ–85	709	423	0.60	0.05070	5.3	0.14000	5.1	0.01990	2.0	0.00650	4.6	0.396	4	127.2	2.8	132.9	6.4	210	120	127.2 ± 2.8
AL4DZ–112	665	466	0.70	0.04960	5.2	0.14140	4.3	0.01990	2.0	0.00670	4.5	0.466	5	127.2	2.6	134.1	5.4	180	120	127.2 ± 2.6
AL4DZ–20	323	206	0.64	0.04920	6.1	0.13480	5.6	0.02000	2.5	0.00640	4.7	0.443	1	127.4	2.9	128.2	6.8	150	130	127.4 ± 2.9
AL4DZ–28	193	62	0.32	0.05100	9.0	0.14200	8.5	0.02000	2.5	0.00640	9.4	0.296	5	127.4	3.1	134.0	11.0	210	190	127.4 ± 3.1
AL4DZ–48	195	95	0.49	0.05390	10.2	0.14800	9.5	0.02000	3.0	0.00670	9.0	0.317	9	127.5	4.0	140.0	12.0	300	210	127.5 ± 4.0
AL4DZ–55	271	150	0.55	0.04880	7.6	0.13390	6.7	0.02000	3.0	0.00610	6.6	0.446	0	127.5	3.5	127.3	8.1	110	160	127.5 ± 3.5
AL4DZ–25	313	148	0.47	0.04840	7.9	0.13600	7.4	0.02000	2.5	0.00640	6.3	0.340	2	127.6	3.3	130.6	9.3	140	170	127.6 ± 3.3
AL4DZ–45	265	125	0.47	0.05050	7.5	0.13900	7.2	0.02000	2.5	0.00640	6.3	0.348	5	127.6	3.0	134.6	8.7	210	150	127.6 ± 3.0
AL4DZ–2	184	54	0.29	0.05050	9.1	0.13900	9.4	0.02000	4.0	0.00650	10.8	0.428	3	127.7	5.1	132.0	12.0	170	190	127.7 ± 5.1
AL4DZ–5	547	417	0.76	0.05180	5.4	0.14110	4.7	0.02000	2.0	0.00610	4.9	0.421	4	127.8	2.7	133.8	5.9	260	120	127.8 ± 2.7
AL4DZ–107	304	157	0.52	0.05420	6.6	0.14760	6.3	0.02010	2.5	0.00710	7.0	0.395	9	128.1	3.0	140.9	7.9	390	140	128.1 ± 3.0
AL4DZ–108	418	315	0.75	0.05020	7.4	0.14000	6.9	0.02010	2.5	0.00660	4.5	0.359	3	128.1	3.0	132.6	8.7	190	160	128.1 ± 3.0
AL4DZ–6	275	122	0.44	0.05020	7.8	0.13700	7.3	0.02010	2.5	0.00610	6.6	0.341	3	128.2	3.3	131.9	9.8	250	170	128.2 ± 3.3
AL4DZ–72	991	741	0.75	0.04830	5.0	0.13220	3.9	0.02010	2.0	0.00600	3.3	0.506	-2	128.4	2.6	126.0	4.6	100	110	128.4 ± 2.6
AL4DZ–63	386	312	0.81	0.04600	6.5	0.12630	6.3	0.02010	2.5	0.00630	4.8	0.393	-7	128.6	2.9	120.5	7.2	0	130	128.6 ± 2.9
AL4DZ–71	564	350	0.62	0.05100	4.9	0.14260	3.8	0.02020	2.0	0.00650	4.6	0.523	5	128.6	2.8	135.2	4.8	220	110	128.6 ± 2.8
AL4DZ–47	1090	755	0.69	0.04930	4.3	0.13690	3.8	0.02020	2.0	0.00630	3.2	0.521	1	128.7	2.3	130.1	4.6	161	97	128.7 ± 2.3
AL4DZ–41	224	105	0.47	0.05270	7.4	0.14800	7.4	0.02020	3.0	0.00690	5.8	0.400	8	128.9	3.6	139.7	9.6	320	150	128.9 ± 3.6
AL4DZ–43	222	106	0.48	0.05030	6.8	0.14200	6.4	0.02020	3.0	0.00670	6.0	0.463	4	128.9	3.7	134.5	8.1	250	150	128.9 ± 3.7
AL4DZ–76	197	62	0.31	0.04780	7.5	0.13360	7.3	0.02020	3.0	0.00690	8.7	0.409	-2	129.0	3.6	127.0	8.7	90	160	129.0 ± 3.6
AL4DZ–12	1060	254	0.24	0.04880	4.3	0.13810	4.1	0.02020	2.0	0.00680	4.4	0.488	2	129.2	2.3	131.2	4.9	160	100	129.2 ± 2.3
AL4DZ–64	442	380	0.86	0.04940	6.7	0.13770	6.1	0.02020	2.5	0.00700	4.3	0.406	1	129.2	3.1	130.7	7.5	140	140	129.2 ± 3.1
AL4DZ–66	721	827	1.15	0.05070	4.7	0.14260	4.8	0.02030	3.0	0.00630	4.8	0.620	4	129.4	4.0	135.2	6.1	210	100	129.4 ± 4.0
AL4DZ–80	437	314	0.72	0.05060	6.7	0.14190	6.4	0.02030	2.5	0.00600	5.0	0.384	4	129.4	2.9	134.4	8.1	210	140	129.4 ± 2.9
AL4DZ–51	309	171	0.55	0.04850	7.4	0.13720	7.1	0.02030	3.0	0.00670	4.5	0.414	0	129.5	3.8	130.1	8.8	120	160	129.5 ± 3.8
AL4DZ–100	384	291	0.76	0.05310	6.4	0.15160	5.9	0.02030	3.0	0.00660	4.5	0.498	9	129.6	3.5	143.0	8.0	290	140	129.6 ± 3.5
AL4DZ–18	423	373	0.88	0.05050	6.5	0.14200	6.5	0.02030	3.0	0.00690	4.3	0.456	4	129.7	3.8	135.8	8.4	180	140	129.7 ± 3.8
AL4DZ–35	464	205	0.44	0.05060	7.3	0.13990	6.7	0.02040	2.0	0.00650	4.6	0.292	2	129.9	2.6	132.6	8.4	200	150	129.9 ± 2.6
AL4DZ–104	350	283	0.81	0.05380	6.5	0.15170	5.7	0.02040	2.9	0.00660	6.1	0.513	9	130.0	3.8	143.1	7.7	360	140	130.0 ± 3.8
AL4DZ–84	377	218	0.58	0.04870	5.5	0.13740	5.3	0.02040	2.0	0.00650	6.2	0.369	0	130.1	2.7	130.5	6.5	120	120	130.1 ± 2.7
AL4DZ–94	625	523	0.84	0.04940	6.5	0.14020	5.3	0.02040	2.0	0.00640	3.1	0.367	2	130.1	2.7	133.0	6.7	160	130	130.1 ± 2.7
AL4DZ–52	379	257	0.68	0.04710	7.0	0.13480	6.8	0.02040	2.9	0.00640	6.3	0.431	-2	130.2	3.8	128.1	8.2	80	150	130.2 ± 3.8
AL4DZ–19	188	136	0.72	0.04990	10.8	0.13600	9.6	0.02040	2.9	0.00650	7.7	0.308	-1	130.3	3.8	129.0	12.0	120	210	130.3 ± 3.8
AL4DZ–101	451	293	0.65	0.05000	6.2	0.14250	5.5	0.02040	2.5	0.00610	4.9	0.442	3	130.4	3.3	135.0	7.0	210	130	130.4 ± 3.3
AL4DZ–110	206	123	0.60	0.05160	9.7	0.14600	8.9	0.02040	2.9	0.00750	5.3	0.330	7	130.4	3.5	140.0	11.0	270	200	130.4 ± 3.5
AL4DZ–27	184	58	0.32	0.04800	10.0	0.13500	10.4	0.02050	2.9	0.00610	8.2	0.282	-2	130.6	3.8	128.0	12.0	120	190	130.6 ± 3.8

AL4DZ–60	468	247	0.53	0.05250	5.1	0.14720	4.4	0.02050	2.0	0.00750	4.0	0.442	6	130.6	2.6	139.3	5.8	280	110	130.6 ± 2.6
AL4DZ–14	451	378	0.84	0.04790	6.3	0.13950	5.1	0.02050	2.0	0.00630	4.8	0.383	1	130.8	2.7	132.4	6.3	140	130	130.8 ± 2.7
AL4DZ–83	339	114	0.34	0.04480	6.7	0.12730	6.7	0.02050	2.4	0.00670	7.5	0.365	-8	130.8	3.0	121.3	7.7	10	140	130.8 ± 3.0
AL4DZ–99	420	164	0.39	0.04950	5.9	0.13960	6.0	0.02050	2.4	0.00620	6.5	0.405	1	130.9	3.1	132.4	7.5	150	130	130.9 ± 3.1
AL4DZ–109	145	45	0.31	0.05090	14.3	0.14000	13.6	0.02060	2.9	0.00740	10.8	0.215	1	131.1	4.0	132.0	17.0	90	270	131.1 ± 4.0
AL4DZ–26	466	207	0.44	0.05310	7.0	0.15010	6.5	0.02060	2.4	0.00660	4.5	0.376	7	131.3	3.2	141.6	8.6	300	150	131.3 ± 3.2
AL4DZ–59	173	81	0.47	0.05240	9.4	0.15200	9.2	0.02060	2.9	0.00680	7.4	0.316	9	131.3	4.1	145.0	12.0	260	200	131.3 ± 4.1
AL4DZ–86	533	415	0.78	0.05120	6.3	0.14270	5.6	0.02060	2.4	0.00610	4.9	0.433	3	131.3	3.1	135.2	7.1	220	130	131.3 ± 3.1
AL4DZ–114	177	119	0.67	0.04870	9.4	0.14000	8.6	0.02060	2.9	0.00660	7.6	0.340	1	131.3	3.7	133.0	11.0	110	180	131.3 ± 3.7
AL4DZ–17	241	75	0.31	0.05430	7.6	0.15100	6.6	0.02060	2.4	0.00750	6.7	0.367	9	131.4	3.2	144.0	9.4	350	170	131.4 ± 3.2
AL4DZ–90	964	672	0.70	0.04920	4.1	0.14410	3.9	0.02060	1.9	0.00660	4.5	0.500	4	131.5	2.7	136.6	4.9	175	92	131.5 ± 2.7
AL4DZ–95	405	290	0.72	0.04850	6.6	0.14010	5.8	0.02060	2.4	0.00650	4.6	0.420	1	131.6	3.1	132.9	7.2	130	130	131.6 ± 3.1
AL4DZ–53	363	159	0.44	0.04730	7.8	0.13600	7.4	0.02070	2.4	0.00660	6.1	0.329	-2	131.9	3.4	129.0	9.2	100	160	131.9 ± 3.4
AL4DZ–58	485	471	0.97	0.05000	5.8	0.14090	4.9	0.02070	2.4	0.00660	4.5	0.493	1	131.9	3.0	133.7	6.2	170	120	131.9 ± 3.0
AL4DZ–11	700	341	0.49	0.04800	4.8	0.14020	4.1	0.02070	1.9	0.00660	4.5	0.475	1	132.0	2.5	133.1	5.0	120	110	132.0 ± 2.5
AL4DZ–9	150	65	0.43	0.05490	10.2	0.15600	9.6	0.02070	3.4	0.00750	9.3	0.352	9	132.2	4.3	146.0	13.0	340	200	132.2 ± 4.3
AL4DZ–7	401	179	0.45	0.05330	6.4	0.15450	5.1	0.02080	2.4	0.00760	3.9	0.470	9	132.6	3.0	145.6	7.0	300	140	132.6 ± 3.0
AL4DZ–74	215	114	0.53	0.05110	6.8	0.14800	6.8	0.02090	2.9	0.00710	5.6	0.425	4	133.6	4.0	139.7	9.0	240	140	133.6 ± 4.0
AL4DZ–67	622	374	0.60	0.04860	5.6	0.14170	5.4	0.02100	1.9	0.00660	4.5	0.351	0	133.7	2.6	134.3	6.8	130	120	133.7 ± 2.6
AL4DZ–8	627	408	0.65	0.04890	4.5	0.13860	4.3	0.02100	1.9	0.00640	4.7	0.447	-2	134.1	2.8	131.7	5.3	132	99	134.1 ± 2.8
AL4DZ–46	943	514	0.55	0.05020	4.2	0.14630	3.6	0.02100	1.9	0.00730	2.7	0.526	3	134.1	2.3	138.5	4.7	201	96	134.1 ± 2.3
AL4DZ–92	902	683	0.76	0.05080	4.1	0.14720	3.6	0.02100	1.9	0.00670	3.0	0.529	4	134.1	2.6	139.3	4.7	229	87	134.1 ± 2.6
AL4DZ–103	607	386	0.64	0.04770	6.1	0.13850	5.5	0.02100	1.9	0.00680	4.4	0.347	-1	134.1	2.8	132.5	6.6	90	130	134.1 ± 2.8
AL4DZ–75	320	103	0.32	0.04810	7.7	0.13920	6.8	0.02110	2.8	0.00680	7.4	0.417	-1	134.5	3.5	133.3	8.7	70	150	134.5 ± 3.5
AL4DZ–69	311	162	0.52	0.05050	9.1	0.14400	8.3	0.02110	2.8	0.00680	5.9	0.341	1	134.7	3.7	136.0	11.0	180	190	134.7 ± 3.7
AL4DZ–40	328	165	0.50	0.05060	6.7	0.14650	6.2	0.02120	2.8	0.00650	6.2	0.456	3	135.0	3.5	138.5	8.0	210	150	135.0 ± 3.5
AL4DZ–78	87	41	0.47	0.05090	14.9	0.15400	13.0	0.02120	4.2	0.00690	10.1	0.327	5	135.4	5.5	143.0	18.0	190	280	135.4 ± 5.5
AL4DZ–106	1109	666	0.60	0.05110	4.1	0.14790	3.9	0.02120	1.9	0.00670	4.5	0.490	3	135.4	2.3	139.9	5.0	229	91	135.4 ± 2.3
AL4DZ–68	853	388	0.45	0.04740	4.4	0.13990	3.9	0.02130	1.9	0.00670	4.5	0.487	-2	135.5	2.7	132.9	4.8	95	95	135.5 ± 2.7
AL4DZ–32	309	261	0.84	0.05130	7.0	0.15300	7.2	0.02170	3.2	0.00830	7.2	0.449	4	138.6	4.4	144.0	9.4	240	150	138.6 ± 4.4
AL4DZ–91	324	165	0.51	0.04940	5.9	0.14840	5.5	0.02180	3.2	0.00710	5.6	0.588	1	139.0	4.5	140.2	7.2	140	120	139.0 ± 4.5
AL4DZ–21	150	72	0.48	0.04950	12.7	0.13800	12.3	0.02180	3.7	0.00690	8.7	0.298	-5	139.1	4.8	133.0	15.0	70	240	139.1 ± 4.8
>10% discordant zircons																				
AL4DZ–42	229	97	0.42	0.06570	8.8	0.18000	8.9	0.01990	3.0	0.00830	6.0	0.339	24	127.3	3.8	167.0	14.0	800	190	127.3 ± 3.8
AL4DZ–98	359	308	0.86	0.05840	6.2	0.16040	5.9	0.02010	2.5	0.00650	4.6	0.420	15	128.1	3.2	150.7	8.3	500	140	128.1 ± 3.2
AL4DZ–15	426	179	0.42	0.06140	5.5	0.16910	5.0	0.02010	2.5	0.00790	5.1	0.495	19	128.3	2.9	158.4	7.4	630	120	128.3 ± 2.9
AL4DZ–23	369	124	0.34	0.05930	5.7	0.16390	5.7	0.02020	2.5	0.00820	6.1	0.436	16	128.9	3.0	153.8	8.1	530	130	128.9 ± 3.0
AL4DZ–34	109	62	0.57	0.05490	10.9	0.15600	10.9	0.02020	3.5	0.00640	9.4	0.318	12	128.9	4.7	146.0	15.0	400	230	128.9 ± 4.7
AL4DZ–65	190	95	0.50	0.06640	8.9	0.18400	8.2	0.02020	3.0	0.00770	6.5	0.364	24	129.0	4.0	170.0	13.0	770	190	129.0 ± 4.0
AL4DZ–97	176	81	0.46	0.05910	8.1	0.16300	7.4	0.02040	2.9	0.00740	9.5	0.400	16	130.0	4.0	155.0	11.0	550	180	130.0 ± 4.0
AL4DZ–4	150	73	0.49	0.06270	8.9	0.17500	8.0	0.02050	2.9	0.00820	8.5	0.366	20	130.9	3.9	163.0	12.0	620	190	130.9 ± 3.9
AL4DZ–1	335	175	0.52	0.06050	8.8	0.17300	8.7	0.02050	2.4	0.00800	6.3	0.281	20	131.0	3.3	163.0	13.0	600	180	131.0 ± 3.3
AL4DZ–56	531	300	0.56	0.06320	5.1	0.18120	4.9	0.02080	2.4	0.00780	5.1	0.495	22	132.7	3.1	169.9	7.8	690	110	132.7 ± 3.1
AL4DZ–22	100	44	0.44	0.06080	11.2	0.17300	9.8	0.02080	4.3	0.00750	8.0	0.440	21	132.9	5.4	169.0	14.0	640	230	132.9 ± 5.4
AL4DZ–49	171	57	0.33	0.05510	7.8	0.16000	7.5	0.02110	2.8	0.00680	11.8	0.379	10	134.3	4.0	150.0	11.0	380	160	134.3 ± 4.0
AL4DZ–37	211	142	0.67	0.05940	9.9	0.18100	9.4	0.02110	3.3	0.00760	7.9	0.353	20	134.7	4.3	168.0	15.0	600	210	134.7 ± 4.3
AL4DZ–13	73	29	0.40	0.06800	13.5	0.20600	13.6	0.02170	3.2	0.00880	12.5	0.237	28	138.1	4.4	191.0	23.0	880	260	138.1 ± 4.4
AL4DZ–102	161	80	0.50	0.05460	10.3	0.17500	10.3	0.02300	3.5	0.00740	6.8	0.338	10	146.6	5.1	162.0	16.0	290	210	146.6 ± 5.1

[#]U and Th concentrations (ppm) were calculated in reference to trace element analysis of NIST 610 standard glass

[†]Corrected isotope ratios relative to the standard zircon age (Ontario 91500 =~1.06 Ga; Wiedenbeck et al., 1995). The 207Pb/206Pb ratios, ages and uncertainties are calculated as in Paton et al. (201(

*Isotope ratio uncertainties are in percentages and age uncertainties are reported at 2 sigma level. 2 sigma uncertainties propagated according to Paton et al, (2010

[**]Rho is the error correlation value defined as the uncertainty ratio (in percentage) of the isotopic ratios of 206Pb/238U and 207Pb/235U

***Percentage of discordance obtained using the following equation (100 * [(age 207Pb / 235U) - (age 206Pb / 238U)] / age 207Pb / 235U) proposed by Ludwig (2001). Positive and negative values indicate normal discordance and inverse discor(

TABLE DR2. PALEOMAGNETIC DATABASE

						Results parametrisch sampling or combining sites								
Name site in database	**Author**	**site name/number in original paper**	**site lat**	**site long**	**age**	**N**	**Dec**	**ΔDx**	**Inc**	**ΔIx**	**k**	**α_{95}**	**K**	**A95min<A95<A95max**
Böhnel89-3	Böhnel et al., 1989	35	19.35	-104.72	Early Cretaceous	9	276.4	17.7	44.8	19.8	15.5	13.5	11.6	5.0<15.8<20.5
Böhnel89-6	Böhnel et al., 1989	43, 45, 48-51, 55	19.14	-103.36	Maastrichtian	7	331.2	16.8	30.3	26.1	9.0	21.2	15.0	5.5<16.1<24.1
Böhnel89-7	Böhnel et al., 1989	56, 57, 59, 60, 66-73	19.14	-103.36	Aptian	19	309.6	11.0	21.9	19.2	6.6	14.2	10.7	3.7<10.7<12.8
Bohnel89-8-n	Böhnel et al., 1989	58, 64, 65, 74-76	19.14	-103.36	Albian	7	330.5	21.6	58.1	15.3	26.2	12.0	14.1	5.5<16.6<24.1
Böhnel89-9	Böhnel et al., 1989	93	18.00	-101.2	61±1 - 42 ±1 Ma	6	38.0	17.5	52.3	15.5	32.7	11.9	21.9	5.9<14.6<26.5
Molina Garza03	Molina Garza et al., 2003	Morelos & Mezcalera Fm - all sites	17.83	-99.56	Conacian-Maastrichtian	18	324.7	2.6	35.9	3.6	207.1	2.4	199.6	3.8>2.5<13.3*
Andreani14-1-n	Andreani et al., 2014	ARB02-03, AST01-03, BAR02-03, BLE09,11, GOC01, OCA01, SM01-08, 10-15, VDR01-04 ALF-1-03, ARP01-08, DMG01-03,05-09, LOB01	21.80	-100.9	29 ± 4 Ma	20	336.9	9.5	34.8	13.6	12.7	9.5	14.2	3.6<9.0<12.4
Andreani14-2-n	Andreani et al., 2015	04	21.00	-101.4	32 ± 4 Ma	18	345.2	5.7	35.7	7.9	28.2	6.6	43.2	3.8<5.3<13.3
Molina-Garza06	Molina-Garza & Orega-Rivera 2006	all sites	18.18	-99.58	37-32 Ma	18	346.4	4.8	34.3	6.9	54.8	4.7	59.9	3.8<4.5<13.3
Rosas-Elguera11	Rosas-Elguera et al., 2011	andesitic dykes - all sites	19.30	-102.5	35.0 ± 1.8 Ma / Eocene	12	345.0	8.4	33.1	12.3	24.6	8.9	30.8	4.4<7.9<17.1
Goguitchaichvili03-n	Goguitchaichvili et al., 2003	volcanics - all sites	20.00	-104.25	64.7 ± 1.2 Ma	14	330.7	6.9	44.2	7.9	45.4	6.0	41.8	4.2<6.2<15.6

* This dataset represent a dated remagnetisation event, resulting in a high k value, and a A95 smaller than the A95min. For a remagnetization data set, the Deenen et al., 2011 criteria are not applicable.