

## Recopilación de edades isotópicas de la región de Morelia

### Robles Pereznegrón y Corona Chávez, Terra Digitalis 2024

Clave	Unidad	Método	Edad	Referencia	Y	X
1	Ignimbrita Mesa Tzitzio	K-Ar	33.44±1.7 Ma	Pasquarè <i>et al.</i> (1991)	19.6	-100.94
2	Ignimbrita Puerto La Sosa	K-Ar	20.53±1.0 Ma	Pasquarè <i>et al.</i> (1991)	19.51	-101.13
3	Ignimbrita Morelia	K-Ar	17.70±0.5 Ma	Pasquarè <i>et al.</i> (1991)	19.63	-101.27
4	Sierra de Mil cumbres	K-Ar	16.20±0.8 Ma	Pasquarè <i>et al.</i> (1991)	19.65	-100.82
5	Sierra de Mil cumbres	K-Ar	14.10±0.70 Ma	Pasquarè <i>et al.</i> (1991)	19.65	-100.91
6	Andesita Sierra de Mil Cumbres	Ar-Ar	23.1±3.5 Ma	Pérez-Esquivias <i>et al.</i> (2010); Arce <i>et al.</i> (2012)	19.75722103	-100.686467
7	Andesita Sierra de Mil Cumbres	Ar-Ar	21.5±0.1 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6765464	-101.153783
8	Domo La Escalera	Ar-Ar	23.0±0.37 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.61055	-101.041269
9	Ignimbrita La Escalera	Ar-Ar	22.89±0.38 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.5837011	-101.088924
10	Domo La Escalera	Ar-Ar	22.28±0.26 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6088593	-101.017362
11	Domo La Escalera	Ar-Ar	21.7±0.26 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.5831552	-101.007377
12	Domo Atécuaro	Ar-Ar	19.4±0.39 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6693142	-101.141492
13	Lava Cuitzeo	Ar-Ar	18.689±0.281 Ma	Avellán <i>et al.</i> (2020)	19.7800845	-101.312502
14	Lava Cuitzeo	Ar-Ar	18.318±0.149 Ma	Avellán <i>et al.</i> (2020)	19.8330562	-101.213973
15	Ignimbrita Cuitzeo	Ar-Ar	17.424±0.012 Ma	Avellán <i>et al.</i> (2020)	19.794687	-101.192964
16	Ignimbrita Cuitzeo	Ar-Ar	16.88±0.34 Ma	Trujillo-Hernández (2017)	19.8636758	-101.333366
17	Ignimbrita Cuitzeo	Ar-Ar	16.88±0.22 Ma	Trujillo-Hernández (2017)	19.8783041	-101.248597

18	Ignimbrita Cuitzeo	Ar-Ar	16.72±0.24 Ma	Trujillo-Hernández (2017)	19.8918481	-101.301117
19	Ignimbrita Atécuaro basal color vino	Ar-Ar	16.76±0.22 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6798397	-101.158576
20	Ignimbrita La Escalera	Ar- Ar	16.25±0.5 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6821943	-101.008618
21	Ignimbrita Atecuaro color blanco	Ar- Ar	16.25±0.14 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6688136	-101.13954
22	Ignimbrita Atécuaro color rosa-blanco	Ar-Ar	16.4±0.3 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6637998	-101.1687
23	Ignimbrita Atécuaro	Ar-Ar	16.3±0.13 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6668028	-101.136977
24	Domo Atécuaro	Ar-Ar	16.31±0.16 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6325549	-101.20123
25	Lava Punhuato	Ar- Ar	16.3±0.64 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.6960001	-101.128683
26	C. El Caracol	Ar-Ar	8.26 ± 0.08 Ma	Trujillo-Hernández <i>et al.</i> (2022)	19.891719	-101.25595
27	Volcán Zapata	Ar-Ar	7.81 ± 0.30 Ma	Trujillo-Hernández (2017)	19.8994649	-101.075448
28	Volcán Zapata	Ar-Ar	6.65 ± 0.10 Ma	Trujillo-Hernández (2017)	19.8491723	-101.120059
29	Volcán Zapata	Ar-Ar	6.89 ± 0.12 Ma	Trujillo-Hernández (2017)	19.8878076	-101.097505
30	Domo La Cruz	Ar- Ar	6.681±0.073 Ma	Avellán <i>et al.</i> (2020)	19.7379613	-101.329349
31	Flujos de La Leonera	Ar-Ar	4.433±0.170 Ma	Kshirsagar <i>et al.</i> (2015)	19.8907222	-101.556444
32	Lava Cuto	Ar-Ar	3.724±0.057 Ma	Avellán <i>et al.</i> (2020)	19.7272869	-101.3404
33	Domo del Divisadero	Ar-Ar	3.144±0.3 Ma	Avellán <i>et al.</i> (2020)	19.6547709	-101.295275
34	C. Tecolote	Ar-Ar	3.02±0.03 Ma	Trujillo-Hernández (2017)	19.8943184	-101.370228
35	Domo Chapultepec	Ar-Ar	2.633±0.041 Ma	Osorio-Ocampo <i>et al.</i> (2018)	19.5556725	-101.523634
36	Picacho	Ar-Ar	1.557±0.06 Ma	Kshirsagar <i>et al.</i> (2015)	19.8102778	-101.392778

37	C. Pelón	Ar-Ar	1.545±0.127 Ma	Kshirsagar <i>et al.</i> (2015)	19.80525	-101.453722
38	Depósito de caída Cuitzeo	Ar-Ar	1.480±0.016 Ma	Avellán <i>et al.</i> (2020)	19.8448327	-101.157305
39	Lava Quinceo	Ar-Ar	1.47±0.14 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.7567502	-101.22705
40	Ignimbrita La Cañada	Ar-Ar	1.471±0.061 Ma	Kshirsagar <i>et al.</i> (2015)	19.8529167	-101.517139
41	Ignimbrita El Durazno	Ar-Ar	1.462±0.029 Ma	Kshirsagar <i>et al.</i> (2015)	19.8820278	-101.511528
42	C. Unguarán	Ar-Ar	1.46±0.14 Ma	Cardona-Melchor (2015)	19.481271	-101.476332
43	Lava Quinceo	Ar-Ar	1.365±0.010 Ma	Avellán <i>et al.</i> (2020)	19.7551085	-101.257701
44	Lava Quinceo	Ar-Ar	1.355±0.017 Ma	Avellán <i>et al.</i> (2020)	19.7709824	-101.205138
45	Domo El Caracol	Ar-Ar	1.282±0.64 Ma	Kshirsagar <i>et al.</i> (2015)	19.8104167	-101.421139
46	Domo El Huracán	Ar-Ar	1.042±0.026 Ma	Osorio-Ocampo <i>et al.</i> (2018)	19.5878598	-101.521458
47	Cerro Chino	Ar-Ar	0.990±0.21 Ma	Pérez-Orozco <i>et al.</i> (2018)	19.686296	-101.475088
48	Domo El Tzirate	Ar-Ar	0.961±0.029 Ma	Kshirsagar <i>et al.</i> (2015)	19.7241111	-101.50425
49	Domo El Tzirate	Ar-Ar	0.930±0.25 Ma	Pérez-Orozco <i>et al.</i> (2018)	19.728639	-101.510672
50	Cono Buenavista	Ar-Ar	0.880±0.094 Ma	Osorio-Ocampo <i>et al.</i> (2018)	19.5507046	-101.547504
51	El Águila	K-Ar	0.87±0.05 Ma	Pasquarè <i>et al.</i> (1991)	19.61	-101.4
52	Sanambo	K-Ar	0.87±0.05 Ma	Nixon <i>et al.</i> (1987)	19.6286111	-101.429167
53	C. Pelón	Ar-Ar	0.844±0.099 Ma	Avellán <i>et al.</i> (2020)	19.7065673	-101.321122
54	Cerro piedra Gorda	Ar-Ar	0.65 Ma	CFE (1985); Cardona-Melchor (2015)	19.43	-101.5
55	El Remolino	Ar-Ar	0.64±0.02 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.621979	-101.337136
56	Tetillas	Ar-Ar	0.562±0.078 Ma	Avellán <i>et al.</i> (2020)	19.6968327	-101.242216
57	Yahuarato	K/Ar	0.560±0.07 Ma	Delgado-Granados <i>et al.</i> (1995)	19.63	-101.55
58	Yahuarato	K-Ar	0.540±0.07 Ma	Ban <i>et al.</i> (1992)	19.6147222	-101.551667

59	El Olvido	Ar-Ar	0.502±0.072 Ma	Osorio-Ocampo <i>et al.</i> (2018)	19.6150973	-101.51161
60	Chato	Ar-Ar	0.497±0.046 Ma	Osorio-Ocampo <i>et al.</i> (2018)	19.5209964	-101.507399
61	Tetillas	Ar-Ar	0.36±0.08 Ma	Gómez-Vasconcelos <i>et al.</i> (2015)	19.7027002	-101.223166
62	Coro Grande	Ar-Ar	0.347±0.013 Ma	Kshirsagar <i>et al.</i> (2015)	19.7596389	-101.408306
63	Tetillas cono somital	Ar-Ar	0.336±0.008 Ma	Avellán <i>et al.</i> (2020)	19.7405704	-101.295851
64	Tetillas domo somital	Ar-Ar	0.346±0.009 Ma	Avellán <i>et al.</i> (2020)	19.7402156	-101.283341
65	Cerritos Lavas	Ar-Ar	0.138±0.037 Ma	Avellán <i>et al.</i> (2020)	19.6632402	-101.301087
66	Cerritos Lavas	Ar-Ar	0.114±0.029 Ma	Avellán <i>et al.</i> (2020)	19.6813742	-101.300459
67	La Muela	Radiocarbono	32590 a	Osorio-Ocampo <i>et al.</i> (2018)	19.4971047	-101.516954
68	Rancho Seco	Radiocarbono	30300 a	Osorio-Ocampo <i>et al.</i> (2018)	19.6214926	-101.460494
69	Rancho Seco	Radiocarbono	27845 a	Ramírez-Uribe <i>et al.</i> (2019)	19.6215556	-101.4605
70	La Alberca	Radiocarbono	22350 a	Kshirsagar <i>et al.</i> (2015)	19.8230278	-101.465
71	La Alberca	Radiocarbono	20275 a	Kshirsagar <i>et al.</i> (2015)	19.7986667	-101.446222
72	El Molcajete de Zipiajo	Radiocarbono	14710 a	Kshirsagar <i>et al.</i> (2015)	19.7833889	-101.551528
73	C. Hueco	Radiocarbono	12570 a	Kshirsagar <i>et al.</i> (2015)	19.7116111	-101.497694
74	El Melón	Radiocarbono	12415 a	Ramírez-Uribe <i>et al.</i> (2019)	19.6804444	-101.421694
75	La Muela	Radiocarbono	11490 a	Osorio-Ocampo <i>et al.</i> (2018)	19.4906909	-101.524244
76	El Melón	Radiocarbono	11470 a	Ramírez-Uribe <i>et al.</i> (2019)	19.6296389	-101.450333
77	La Mina	Radiocarbono	10020 a	Kshirsagar <i>et al.</i> (2015)	19.7141111	-101.451778
78	La Mina	Radiocarbono	7045 a	Kshirsagar <i>et al.</i> (2015)	19.7174167	-101.444972
79	Derrames Tendeparacua	Radiocarbono	6105 a	Kshirsagar <i>et al.</i> (2015)	19.8848056	-101.450083
80	C. Los Lobos	Radiocarbono	6015 a	Comunicación personal, C. Siebe, en Osorio-Ocampo <i>et al.</i> (2018)	19.504118	-101.547903

81	El Frijol	Radiocarbono	3230 a	Osorio-Ocampo <i>et al.</i> (2018)	19.4963341	-101.537853
82	El Frijol	Arqueomagnético	3906 a	García-Quintana (2016)	19.4559944	-101.548472