Table 2. Radiometric ages from the Greater Antilles and the Virgin Islands, including K/Ar, $^{40}Ar/^{39}Ar$, fission-track, Rb/Sr, U/Pb, Re/Os, and Lu/Hf age determinations.

[Methods: K/Ar, potassium-argon; 40/39, $^{40}Ar/^{39}Ar$ (includes plateau, total fusion, integrated, or isochron ages); Lu/Hf, lutetium-hafnium; Rb/Sr, rubidium-strontium; Re/Os, rhenium-osmium; U/Pb, uranium-lead (LA-ICP-MS, laser ablation inductively coupled plasma mass spectrometry; SHRIMP, sensitive high-resolution ion microprobe; or TIMS, thermal ionization mass spectrometry); Other abbreviations: K, potassium; K-feldspar, potassium feldspar; MORB, midocean-ridge basalt; MSWD, mean square weighted deviation; n/a, not available or applicable as appropriate; T (as in, 'high T fractions'), temperature]

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
British Virgin Islands									
PI-13A	18.332	-64.5719	Diorite	Zircon	TIMS Multigrain	30.64	0.46	The diorite phase of the Peter Island suite yields two concordant and two normally discordant fractions spanning 30.62 to 30.83 Ma, with a $^{206}Pb/^{238}U$ weighted average of 30.6 Ma. This age is corroborated by LA-ICP-MS analysis of 11 grains giving weighted mean age of 30.64±0.46 Ma (MSWD = 1.09; C. Allen, personal commun., 2010). One concordant fraction gives an older age of 32.5 Ma, interpreted to reflect inheritance of zircon cores from earlier magmas.	Schrecengost, 2010
VI-7	18.3723	-64.7425	Granodiorite	Hornblende	K/Ar	23.7	0.3	Reported as Narrows pluton. No location provided; crudely approximate location here is a guess based on location of pluton near Fort Recovery. Date recalculated using constants of Steiger and Jager (1977).	Kesler and Sutter, 1979; Vila and others, 1986; Rankin, 2002
VI 29	18.383	-64.6723	Diorite	Whole rock	K/Ar	42.80	2.14	Narrows pluton, Fort Recovery on Tortola.	Vila and others, 1986; Rankin, 2002
VIJ 453	18.383	-64.6723	Granite	Whole rock	K/Ar	35.37	1.77	Granite, Virgin Gorda batholith at The Baths, Virgin Gorda.	Vila and others, 1986; Rankin, 2002
VG-05	18.4264	-64.4452	Granodiorite	Zircon	TIMS Multigrain	37.62	0.05	Six concordant fractions of VG-05 cluster and yield an age of 37.62±0.05 Ma (MSWD = 0.53).	Schrecengost, 2010
VI-8	18.434	-64.427	Granodiorite	Biotite	K/Ar	31.9	0.4	Reported as Copper Mine Point granodiorite, same pluton as Cox and others (1977) sample V-G-1. Location derived from Wikipedia for Copper Mine Point copper mine; accuracy of location relative to this sample is unknown. Date recalculated using constants of Steiger and Jager (1977).	Kesler and Sutter, 1979; Vila and others, 1986; Rankin, 2002
V-G-1	18.4375	-64.4361	Quartz diorite	Hornblende	K/Ar	35.1	1.6	Quartz diorite (also reported as granodiorite) from the Virgin Islands batholith; date recalculated using constants of Steiger and Jager (1977). Copper Mine Point, Virgin Gorda batholith.	Cox and others, 1977; Vila and others, 1986; Kesler and Sutter, 1979; Rankin, 2002
				Biotite	K/Ar	37.2	0.9		
VG-06	18.4414	-64.4384	Tonalite	Zircon	TIMS Multigrain	37.6		Two concordant fractions of VG-06 cluster at 37.6. No error reported.	Schrecengost, 2010
TTL 459	18.4418	-64.5477	Diorite	Whole rock	K/Ar	38.85	1.94	Virgin Gorda batholith, Beef Island.	Vila and others, 1986; Rankin, 2002
BI-26	18.4430	-64.5433	Tonalite	Zircon	TIMS Multigrain	42.55	0.44	Four concordant fractions of BI-26, the tonalite phase of the Beef Island suite, span from 42.29 to 42.43 Ma. LA-ICP-MS of seven zircon grains from BI-26 provides a weighted age of 42.55±0.44 Ma (MSWD = 0.27; C. Allen, personal commun., 2010).	Schrecengost, 2010
VG-01	18.4867	-64.3886	Quartz diorite	Zircon	TIMS Multigrain	43.56	0.08	Four concordant fractions of the quartz diorite phase of the North Sound suite, VG-01, span from 43.53 to 43.62 Ma. These four fractions, together, yield an age of 43.56±0.08 Ma (MSWD = 0.082).	Schrecengost, 2010
VIJ 451	18.484	-64.389	Gabbro	Whole rock	K/Ar	60.36	3.02	Gabbro, Virgin Gorda batholith near Virgin Peak, Virgin Gorda	Vila and others, 1986; Rankin, 2002
Cuba									
CU49	19.9339	-76.8278	Trondhjemite	Zircon	U/Pb SHRIMP	60.2	2.6	Turquino Massif, 3 grains. Coordinates adjusted northward to place site onshore.	Rojas-Agramonte and others, 2004, 2006
Unknown	19.9380	-76.7930	Unknown	Zircon	U/Pb	56		Turquino Massif. No error reported.	Kysar and others, 1998; Rojas-Agramonte and others, 2004
4382	19.9443	-75.6571	Quartz diorite	Whole rock	K/Ar	47.8	6	Daiquiri quartz diorite, 20 km east of Santiago de Cuba, southern Oriente Province. Latitude and longitude approximate. Early to middle Eocene. Sierra Maestra. Late in Laramide orogeny. Original reported age was 49 Ma, recalculated here using constants of Steiger and Jager (1977). Two determinations were made and average was reported. Individual determinations were (recalculated) 45.3 and 49.1 Ma. Same as Meyerhoff's sample 7.	Laverov and others, 1967; Meyerhoff and others, 1969
CU40	19.9464	-76.7171	Tonalite	Zircon	Fission-track	44	4	Peladero Massif, 7 grains.	Rojas-Agramonte and others, 2006
				Biotite	40/39 Integrated	53.8	3.8	Peladero Massif. Integrated age, steps 4 to 14.	
CU60	19.9464	-76.7173	Tonalite	Apatite	Fission-track	31	10	Turquino Massif, 20 grains.	Rojas-Agramonte and others, 2006
				Zircon	U/Pb SHRIMP	55.4	0.7	Turquino Massif, 8 grains.	Rojas-Agramonte and others, 2004, 2006
CU5	19.9558	-75.6786	Tonalite	Zircon	Fission-track	36	4	Daiquiri Massif southeast of Santiago de Cuba, 9 grains.	Rojas-Agramonte and others, 2006
					U/Pb SHRIMP	50.1	.5	Daiquiri Massif southeast of Santiago de Cuba, 5 grains.	Rojas-Agramonte and others, 2004, 2006
					U/Pb SHRIMP	310.8	3.4	Daiquiri Massif southeast of Santiago de Cuba, 1 grain, either inherited or possible laboratory contamination.	Rojas-Agramonte and others, 2004, 2006

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
4380	19.9607	-76.0104	Diorite	Whole rock	K/Ar	58.1	8	Nima-Nima diorite, 20 km west of Santiago de Cuba, southern Oriente Province. Latitude and longitude approximate. Paleocene. Sierra Maestra. Late in Laramide orogeny. Original reported age was 58 Ma, recalculated using constants of Steiger and Jager (1977). Two determinations were made and average was reported. Individual determinations were (recalculated) 53.5 and 60.4 Ma. Same as Meyerhoff's sample 9.	Laverov and others, 1967; Meyerhoff and others, 1969
4383	19.9607	-76.0107	Plagiogranite	Whole rock	K/Ar	44.2	6	Nima-Nima plagiogranite porphyry, 20 km west of Santiago de Cuba, southern Oriente Province. Latitude and longitude approximate. Early to middle Eocene. Sierra Maestra. Late in Laramide orogeny. Original reported age was 46 Ma, recalculated using constants of Steiger and Jager (1977). Two determinations were made and average was reported. Individual determinations were (recalculated) 45.2 and 43.3 Ma. Same as Meyerhoff's sample 8.	Laverov and others, 1967; Meyerhoff and others, 1969
Unknown	19.9610	-75.6760	Dacite	Zircon	U/Pb	49.7	.3	Flow structurally above Daiquiri intrusion.	Kysar and others, 1998; Rojas-Agramonte and others, 2004
Unknown	19.961	-75.676	Quartz diorite	Zircon	U/Pb	49.8	.2	Daiquiri Massif.	Kysar and others, 1998; Rojas-Agramonte and others, 2004
Unknown	19.961	-75.676	Gabbro-diorite	Zircon	U/Pb	50.2	.1	Daiquiri Massif.	Kysar and others, 1998; Rojas-Agramonte and others, 2004
Unknown	19.9610	-75.6760	Andesite	Zircon	U/Pb	50.6	.1	Dike.	Kysar and others, 1998; Rojas-Agramonte and others, 2004
Unknown	19.961	-75.676	Gabbro	Unknown	Unknown	76	3.8		Rodriguez-Crombet and others, 1997
Unknown	19.961	-75.676	Quartz diorite	Unknown	Unknown	39	4		Alioshin and others, 1975; Rojas-Agramonte and others, 2006
Unknown	19.961	-75.676	Tonalite	Unknown	Unknown	54	5		Alioshin and others, 1975; Rojas-Agramonte and others, 2006
Unknown	19.961	-75.954	Quartz diorite	Unknown	Unknown	42	5		Eguipko and Perez, 1976
Unknown	19.961	-75.954	Quartz diorite	Unknown	Unknown	42	5		Eguipko and Perez, 1976
Unknown	19.961	-75.676	Tonalite	Unknown	Unknown	44	4		Eguipko and Perez, 1976
Unknown	19.961	-75.954	Quartz diorite	Unknown	K/Ar	58	5		Laverov and Cabrera, 1967
Unknown	19.961	-75.954	Quartz diorite	Unknown	K/Ar	58	5		Laverov and Cabrera, 1967
CU30	19.9628	-75.7864	Tonalite	Zircon	U/Pb SHRIMP	50.1	.5	Nima-Nima Massif southwest of Santiago de Cuba, 6 grains.	Rojas-Agramonte and others, 2004, 2006
				Zircon	Fission-track	32	3	Nima-Nima Massif southwest of Santiago de Cuba, 8 grains.	Rojas-Agramonte and others, 2006
				Apatite	Fission-track	44	13	Nima-Nima Massif southwest of Santiago de Cuba, 30 grains.	
CU29	19.9636	-75.9889	Tonalite	Zircon	U/Pb SHRIMP	50.5	.5	Nima-Nima Massif southwest of Santiago de Cuba, 8 grains.	Rojas-Agramonte and others, 2004, 2006
				Zircon	Fission-track	39	4	Nima-Nima Massif southwest of Santiago de Cuba, 8 grains.	Rojas-Agramonte and others, 2006
				Biotite	40/39 Integrated	49.9	2.4	Nima-Nima Massif southwest of Santiago de Cuba. Integrated age, steps 8 to 19.	
CU32	19.9669	-75.9489	Tonalite	Zircon	Fission-track	41	3	Nima-Nima Massif southwest of Santiago de Cuba. 15 grains.	Rojas-Agramonte and others, 2006
D316	20.0942	-74.765	Amphibolite	Unknown, whole rock?	K/Ar	80	10	All locations from source are approximate generalities. Garnet amphibolite, inclusion in serpentinite mélange, North of San Antonio del Sur, Guantanamo Province. Reported age was 10 Ma which is probably the error, calculated age based on reported analytical data.	Somin and others, 1992
CU147B	19.9697	-76.6836	Tonalite	Zircon	U/Pb SHRIMP	48.2	.4	Peladero Massif, 7 grains.	Rojas-Agramonte and others, 2004, 2006
Unknown	19.997	-76.466	Quartz diorite	Zircon	U/Pb	46.9	.1	Guama Massif.	Kysar and others, 1998; Rojas-Agramonte and others, 2004
D322-1	20.0942	-74.765	Schist	Unknown, WR?	K/Ar	86.8	7	All locations from source are approximate generalities. Mica-quartz-albite schist, inclusion in serpentinite mélange from north of San Antonio del Sur, Guantanamo Province. Reported age was 86 Ma, recalculated here based on reported analytical data. Duplicate sample ID in source.	Somin and others, 1992
D331	20.0942	-74.765	Meta-trondhjemite	Hornblende	K/Ar	90.7	5	All locations from this source are approximate generalities. Meta-trondhjemite, inclusion in serpentinite mélange from north of San Antonio del Sur, Guantanamo Province. Reported age was 91 Ma on hornblende and 158 Ma on plagioclase, both recalculated here based on reported analytical data.	Somin and others, 1992
				Plagioclase	K/Ar	157	15		
D331-1M	20.0942	-74.765	Meta-trondhjemite	Paragonite	K/Ar	84.0	4	All locations from this source are approximate generalities. Metatrondhjemite, inclusion in serpentinite mélange from north of San Antonio del Sur, Guantanamo Province. Reported age was 87 Ma, recalculated here based on reported analytical data.	Somin and others, 1992

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
D331-3M	20.0942	-74.765	Meta-trondhjemite	Paragonite	K/Ar	86.8	4	All locations from source are approximate generalities. Metatrondhjemite, inclusion in serpentinite mélange from north of San Antonio del Sur, Guantanamo Province. Reported age was 87 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
D331-5M	20.0942	-74.765	Amphibolite	Hornblende	K/Ar	116.1	9	All locations from source are approximate generalities. Amphibolite, inclusion in serpentinite mélange from north of San Antonio del Sur, Guantanamo Province. Reported age was 116 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
D336-6	20.0942	-74.765	Pegmatite	Muscovite	K/Ar	122	5	All locations from source are approximate generalities. Pegmatite inclusion in serpentinite mélange from Alto de Corea, Sierra del Cristal. Reported age was 122 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
CU22	20.1028	-74.6825	Trondhjemite	Zircon	U/Pb SHRIMP	112.8	1.1	Trondhjemite boulder from mélange. Location approximate, 9 grains analyzed.	Lazaro and others, 2009
CV139a	20.1108	-74.5762	Amphibolite	Amphibole	40/39 Plateau	82.67	0.84	Green amphibole. Location approximate. Plateau age based on 69.9% of gas. Plateau interpreted to reflect retrograde growth or cooling of retrograde amphibole.	Lazaro and others, 2009
				Amphibole	40/39 Integrated	96.5	0.8	Brown amphibole. Location approximate. Integrated age based on 93.9% of gas; no plateau determined. Interpreted as cooling of peak paragasitic amphibole.	
D322-1	20.1108	-74.5875	Schist	Unknown, whole rock?	K/Ar	61.7	5	All locations from source are approximate generalities. Mica-quartz schist, Purial series from Sierra del Purial north of Inias. Reported age was 75 Ma, recalculated here based on reported analytical data. Duplicated sample number in report, this is easternmost.	Somin and others, 1992
CV227b	20.1125	-74.7193	Trondhjemite	Amphibole	40/39 Integrated	94.7	1.1	Location approximate. Integrated age comprises 97.7% of gas. Final step, 41.6% of gas yielded 97.7±0.9 Ma, thought to reflect paragasitic amphibole age. Retrograde age was considered indeterminate.	Lazaro and others, 2009
M-3	20.1128	-74.7370	Pegmatite	Unknown, whole rock?	K/Ar	116.8	10	All locations from source are approximate generalities. Mica-quartz schist, Cangre belt. 15 km east of Guane. Reported age was 116 Ma, recalculated here based on reported analytical data. Doubt it was actually muscovite, contained less than 1% K_2O.	Somin and others, 1992
CV228c	20.1133	-74.7195	Trondhjemite	Amphibole	40/39 Integrated	85.7	1.5	Location approximate. Integrated age based on 67.9% of gas, final step yielded 105.5±1.9 Ma, 29% of gas. Interpretation suggests older age reflects paragasitic amphibole and integrated age reflects retrograde amphibole.	Lazaro and others, 2009
GJ-258a	20.1138	-74.3084	Garnet Amphibolite	Hornblende	40/39 Plateau	78.24	1.88	4 of 5 steps, (2 to 5), normal isochron 78.31±1.84 Ma, inverse isochron 78.4±1.62 Ma, MSWD = 0.15, $^{40}Ar/^{36}Ar$ intercept 256.4±71.0.	Lazaro and others, 2015
GJ-259a	20.1151	-74.3103	Garnet Amphibolite	Hornblende	40/39 Plateau	76.55	2.03	4 steps (3 to 6), MSWD = 0.76, 94.8% of ^{39}Ar released, normal isochron age 78.57±2.03, inverse isochron age 77.62±1.78, $^{40}Ar/^{36}Ar$ intercept at 188.1±69.3.	Lazaro and others, 2015
OFT-146g	20.1258	-74.3125	Amphibolite	Amphibole	40/39 Plateau	123.2	2.2	Very crude estimate of location. Terrible map in publication. Apparent isochron age is 119±3.1 Ma, MSWD = 1.5, initial $^{40}Ar/^{36}Ar$ = 276.4±2.9.	Lazaro and others, 2016
CV230b	20.1363	-74.7195	Amphibolite	Amphibole	40/39 Integrated	90.6	1.1	Interpretation reflects mixing of primary and retrograde amphibole. Combined integrated age is 90.6±1.1 Ma using 97.5% of gas. Further interpretation suggests 86.9±0.9 Ma for retrograde amphibole (71.4% gas) and 100.6±1.8 for paragasitic amphibole.	Lazaro and others, 2009
GJ-9	20.1388	-74.3114	Amphibolite	Amphibole	40/39 Integrated	80.70	7.58	3 of 4 steps (2 to 4), integrated age, no plateau, 99.3% ^{39}Ar.	Lazaro and others, 2015
Unknown	20.2043	-74.4147	Amphibolite	Whole rock	K/Ar	60.6	5	Sierra del Purial; amphibolite complex. Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	20.2043	-74.4147	Amphibolite	Whole rock	K/Ar	63.5	0	Sierra del Purial; amphibolite complex. Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
CV53f	20.2885	-74.7103	Trondhjemite	Amphibole	40/39 Integrated	94.8	2.3	Location approximate. Integrated age based on 97.4% of gas, reflecting mean age of magmatic and retrograde amphibole. Later steps 9 and 10 yielded 103.6±2.6 Ma, 42.2% of gas. Earlier step, 7, yielded 87.1±0.9 Ma (42.8% gas). Interpretation suggests older age reflects paragasitic amphibole and younger age reflects retrograde amphibole.	Lazaro and others, 2009
D337	20.4264	-75.8608	Schist	Unknown, whole rock?	K/Ar	100.1	12	All locations from source are approximate generalities. Mica-quartz schist inclusion in serpentinite mélange from Alto de Corea, Sierra del Cristal. Reported age was 101 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
D339	20.4264	-75.8608	Pegmatite	Muscovite	K/Ar	93.3	4	All locations from source are approximate generalities. Pegmatite inclusion in serpentinite mélange from Alto de Corea, Sierra del Cristal. Reported age was 96 Ma, recalculated here based on reported analytical data.	Somin and others, 1992

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
D350	20.4264	-75.8608	Schist	Unknown, whole rock?	K/Ar	65.0	7	All locations from source are approximate generalities. Mica-quartz schist inclusion in serpentinite mélange from Alto de Corea, Sierra del Cristal. Reported age was 66 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
Meyerhoff_3	20.5097	-75.5373	Pegmatite	Whole rock	K/Ar	116	11.6	20 km south of Nicaro, northern Oriente Province. Latitude and longitude approximate. Hauterivian (Early Cretaceous). Pegmatite dike cuts metamorphic rocks of Jurassic(?) age according to Adamovich and Chejovich (1964). Age recalculated with constants of Steiger and Jager (1977).	Meyerhoff and others, 1969
GM206	20.5357	-79.7358	Amphibolite	Whole rock	K/Ar	59.4	12	Albite garnet amphibolite. Complejos de inclusiones en serpentinita y en zonas de mélange; Zona de mélange de Rancho Veloz. anfibolita ganaffera [Complex of inclusions in serpentinite and mélange zones of Rancho Veloz, northern Villa Clara Province]. All locations from sources are approximate generalities. Reported age 60 Ma, recalculated from analytical data.	Somin and Millán, 1977 (in Spanish); Somin and others, 1992
GM203-3	20.5357	-79.7357	Amphibolite	Whole rock	K/Ar	59.7	12	Albite garnet amphibolite. Complejos de inclusiones en serpentinita y en zonas de mélange; Zona de mélange de Rancho Veloz. anfibolita ganaffera [Complexes of inclusions in serpentinite and mélange zones of Rancho Veloz, northern Villa Clara Province] Location not reported, coordinates here inferred. Reported age 60 Ma, recalculated from analytical data.	Somin and Millán, 1977 (in Spanish)
LB 204	20.607	-75.734	Gabbro	Amphibole	K/Ar	88.6	3.5	Gabbroic dike cutting peridotite.	Marchesi, 2006
C-00-18	20.883	-76.733	Granodiorite	Biotite	40/39 Plateau	72.9	0.2	Macizo Majibacoa, coarse grained.	Hall and others, 2004
				Biotite	40/39 Plateau	73.1	0.1		
				Hornblende	40/39 Plateau	73.1	0.6		
				Hornblende	40/39 Plateau	79.9	0.5		
C-00-09	21.071	-77.423	Granodiorite	Hornblende	40/39 Plateau	74.2	1.4	La Union, strongly porphyritic with phenocrysts of hornblende, plagioclase and altered pyroxene?	Hall and others, 2004
				Hornblende	40/39 Plateau	75.6	2.1		
C-00-17	21.131	-77.318	Granodiorite	Hornblende	40/39 Plateau	72.9	1.3	Pueblo Nuevo, coarse grained to seriate.	Hall and others, 2004
				Hornblende	40/39 Plateau	73.8	0.6		
C-00-03A	21.15	-77.397	Syenite	K-feldspar	40/39 Total fusion	79.6	0.2	Palo Seco quarry, coarse grained.	Hall and others, 2004
				K-feldspar	40/39 Total fusion	79.8	0.3		
				Hornblende	40/39 Total fusion	96.1	0.9	Palo Seco quarry, coarse grained. P. Renne, written commun. cited in Hall and others (2004).	
				Biotite	40/39 Total fusion	96.8	0.4		
C-98-2	21.15	-77.397	Granodiorite	Hornblende	40/39 Plateau	68.4	0.3	Palo Seco quarry, coarse grained.	Hall and others, 2004
				Hornblende	40/39 Plateau	68.9	0.9		
				Hornblende	40/39 Plateau	69.5	0.5		
C-98-3	21.166	-77.379	Syenite	Biotite	40/39 Total fusion	71.4	0.1	Small pits 0.5 km south of Deseada, coarse grained.	Hall and others, 2004
				Biotite	40/39 Total fusion	72.4	0.2		
				Biotite	40/39 Plateau	72.7	0.3		
				K-feldspar	40/39 Plateau	71.9	0.6		
				K-feldspar	40/39 Plateau	72.3	0.3		
C-00-06	21.177	-77.437	Syenite	Biotite	40/39 Total fusion	60.1	0.3	Las Piedras, coarse grained.	Hall and others, 2004
				Biotite	40/39 Plateau	65.8	0.6		
C-00-11	21.187	-77.539	Basalt	Whole rock	40/39 Integrated	73.7	0.5	Camujiro Formation, La Elisa. Total fusion age was 73.2±0.5 Ma, no plateau so integrated age calculated.	Hall and others, 2004
				Whole rock	40/39 Integrated	75.7	0.9	Camujiro Formation, La Elisa. Total fusion age was 75.0±0.9 Ma, no plateau so integrated age calculated.	
D-1a	21.1931	-77.3625	Porphyry	Alunite	40/39 Plateau	82.0	0.3	Deseada prospect, alunite-quartz-rutile-diaspore-kaolinite replacing volcanic(?) rock. Approximate location.	Kesler and others, 2004
D-1b				Alunite	40/39 Total fusion	92.6	2.1		
D-1c				Alunite	40/39 Total fusion	84.7	0.2		
D-1d				Alunite	40/39 Total fusion	81.8	0.3		
DES-2	21.1931	-77.3625	Porphyry	K-feldspar	40/39 Plateau	75.2	0.9	Deseada prospect, feldspar porphyry. Approximate location.	Kesler and others, 2004

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
C-00-10	21.204	-77.443	Granodiorite	Hornblende	40/39 Plateau	72.8	0.9	La Caridad, moderately porphyritic with phenocrysts of hornblende, plagioclase and altered pyroxene?	Hall and others, 2004
				Hornblende	40/39 Plateau	74.2	0.8		
C-00-41	21.209	-77.782	Basalt	Whole rock	40/39 Integrated	71.3	0.2	Piragua Formation, Santa Clara. Total fusion age was 64.8±0.2 Ma, no plateau so integrated age calculated.	Hall and others, 2004
				Whole rock	40/39 Integrated	71.5	0.2		
C-00-42	21.209	-77.782	Volcaniclastic rock	Whole rock	40/39 Integrated	72.1	0.2	Piragua Formation, Santa Clara. Total fusion age was 71.0±0.2 Ma, no plateau so integrated age calculated.	Hall and others, 2004
						73.7	0.3	Piragua Formation, Santa Clara. Total fusion age was 72.8±0.3 Ma, no plateau so integrated age calculated.	
C-00-05B	21.22	-77.402	Granodiorite	Hornblende	40/39 Total fusion	63.2	2.5	Las Marias, Maraguan facies, very coarse grained.	Hall and others, 2004
				Hornblende	40/39 Plateau	73.3	0.4		
				Hornblende	40/39 Plateau	73.6	0.2		
				Biotite	40/39 Total fusion	72.3	0.2		
				Biotite	40/39 Plateau	73.0	0.2		
C-00-40	21.223	-77.779	Basalt	Whole rock	40/39 Integrated	73.0	0.2	Piragua Formation, La Eugenia. Total fusion age was 72.8±0.2 Ma, no plateau so integrated age calculated.	Hall and others, 2004
				Whole rock	40/39 Integrated	74.1	0.2	Piragua Formation, La Eugenia. Total fusion age was 75.6±0.2 Ma, no plateau so integrated age calculated.	
C-00-13A	21.2372	-76.9958	Volcanic rock	Illite	40/39 Total fusion	75.5	0.2	Approximate location. Dumanuecos deposit in Caobilla Formation. Retention age 81.2±0.2 Ma.	Kesler and others, 2004
C-00-22	21.247	-77.876	Basalt	Whole rock	40/39 Integrated	72.3	0.2	Camujiro Formation, La Union. Total fusion age was 67.7±0.2 Ma, no plateau so integrated age calculated.	Hall and others, 2004
				Whole rock	40/39 Plateau	73.0	0.2	Camujiro Formation, La Union. Total fusion age was 67.7±0.1 Ma, no plateau so integrated age calculated.	
C-00-23A	21.247	-78.07	Rhyolite	Biotite	40/39 Plateau	74.8	0.5	La Sierra Formation, Siete Palmas.	Hall and others, 2004
				Biotite	40/39 Plateau	75.1	0.5		
C-98-1	21.26	-77.475	Rhyolite	Biotite	40/39 Plateau	71.5	0.8	La Sierra Formation, Las Margaritas.	Hall and others, 2004
				Biotite	40/39 Plateau	72.1	0.2		
				K-feldspar	40/39 Plateau	72.5	0.4		
				K-feldspar	40/39 Plateau	73.3	0.6		
C-98-1x	21.26	-77.475	Rhyolite	Biotite	40/39 Plateau	71.2	0.2	La Sierra Formation, Las Margaritas.	Hall and others, 2004
				Biotite	40/39 Plateau	71.6	0.2		
				Biotite	40/39 Plateau	72.0	0.5		
C-98-4	21.26	-77.475	Rhyolite	K-feldspar	40/39 Plateau	72.4	0.7	La Sierra Formation, Las Margaritas.	Hall and others, 2004
				K-feldspar	40/39 Plateau	73.4	0.6		
				K-feldspar	40/39 Plateau	75.6	0.8		
CSE-22-36	21.2614	-77.4958	Quartz vein	Adularia	40/39 Plateau	73.3	1.5	Jacinto deposit. Reported plateau for adularia was described as a plateau-like segment of high T fractions consisting of 42% of ^{39}Ar released. The two sources, using essentially the same figure, show different locations for this site; neither provide useful coordinates and the geologic map and Google Earth were used to provide approximate coordinates based on Kesler and others (2004) paper.	Hall and others, 2004; Kesler and others, 2004
				Adularia	40/39 Total fusion	74.3	0.2		
CSE-22-41	21.2614	-77.4958	Quartz vein	Adularia	40/39 Plateau	69.8	0.4	Jacinto deposit. The two sources, using essentially the same figure, show different locations for this site; neither provide useful coordinates and the geologic map and Google Earth were used to provide approximate coordinates based on Kesler and others (2004) paper.	Hall and others, 2004; Kesler and others, 2004
C-00-21-1	21.2628	-77.7986	Porphyry	K-feldspar	40/39 Total fusion	86.8	0.3	Feldspar porphyry. Tres Antenas (Vidot) prospect; paper on maps transposes name with La Mina; approximate location estimated based on map; assumes map sample numbers are transposed. Single grain age.	Kesler and others, 2004
C-00-21-2	21.2628	-77.7986	Porphyry	K-feldspar	40/39 Total fusion	77.3	0.3	Feldspar porphyry. Tres Antenas (Vidot) prospect; paper on maps transposes name with La Mina; approximate location estimated based on map; assumes map sample numbers are transposed. Single grain age.	Kesler and others, 2004

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
C-00-21B	21.2628	-77.7986	Porphyry	Illite	40/39 Total fusion	82.0	0.2	Feldspar porphyry. Tres Antenas (Vidot) prospect; paper on maps transposes name with La Mina; approximate location estimated based on map; assumes map sample numbers are transposed. A so-called retention age was 82.6±0.2 Ma.	Kesler and others, 2004
C-00-20	21.285	-77.779	Syenite	Hornblende	40/39 Plateau	71.6	0.4	Jimbambay, coarse grained.	Hall and others, 2004
				Hornblende	40/39 Plateau	73.0	0.3		
C-00-43a	21.2889	-77.7267	Greisen	Muscovite	40/39 Plateau	74.7	0.2	La Mina prospect; paper on maps transposes name with Tres Antenas; approximate location estimated based on map; assumes map sample numbers are transposed. Coarse-grained muscovite and quartz.	Kesler and others, 2004
C-00-43b				Muscovite	40/39 Plateau	73.4	0.1		
C-00-15	21.403	-77.208	Basalt	Whole rock	40/39 Integrated	50.8	0.5	La Mulata Formation. Total fusion age was 50.0±0.5 Ma, integrated age calculated.	Hall and others, 2004
				Whole rock	40/39 Integrated	52.0	0.3	La Mulata Formation. Total fusion age was 50.6±0.3 Ma, integrated age calculated.	
				Whole rock	40/39 Integrated	53.2	0.3	La Mulata Formation. Total fusion age was 52.2±0.3 Ma, integrated age calculated.	
B15-1	21.5697	-77.8900	Altered rock	Whole rock	K/Ar	63.7	7	All locations from this source are approximate generalities. Quartz of albite-micaceous rock, inclusions in serpentinite mélange. Sierra de los Organos. Reported age 66 Ma. Recalculated here based on reported analytical data.	Somin and Millán, 1977; Somin and others, 1992
C-00-24A	21.6145	-78.1733	Volcanic rock	Illite	40/39 Total fusion	77.9	0.5	Approximate location. Loma Urabo deposit in Caobilla Formation. Retention age 78.9±0.5 Ma.	Kesler and others, 2004
C-00-24B	21.6145	-78.1733	Volcanic rock	Muscovite	40/39 Plateau	78.6	0.2	Approximate location. Loma Urabo deposit in Caobilla Formation.	Kesler and others, 2004
4386	21.6984	-82.6641	Schist	Muscovite	K/Ar	75.9	4	Muscovite schist, Isle of Pines, Habana Province. Latitude and longitude approximate. Senonian. Early event of Laramide orogeny? Original reported age was 78 Ma. Recalculated with modern constants. Two determinations were made and average was reported. Individual determinations were (recalculated) 74.3 and 77.5 Ma. Same as Meyerhoff's sample 5.	Laverov and others, 1967; Meyerhoff and others, 1969
4387	21.6984	-82.6641	Schist	Muscovite	K/Ar	71.2	4	Muscovite schist, Isle of Pines, Habana Province. Latitude and longitude approximate. Senonian. Early event of Laramide orogeny? Original reported age was 73 Ma. Recalculated with modern constants. Two determinations were made and average was reported. Individual determinations were (recalculated) 69.9 and 73.2 Ma. Same as Meyerhoff's sample 6.	Laverov and others, 1967; Meyerhoff and others, 1969
Meyerhoff_4	21.6984	-82.6641	Schist	Muscovite	K/Ar	74	2	Muscovite schist, Isle of Pines, Habana Province. Senonian (Late Cretaceous). Kuman and Gavilan (1965) erroneously reported 190-m.y. date (Khudoley, 1967a, p. 673, footnote 4; Khudoley, 1967b, p. 789, footnote 7). Dates from Isle of Pines probably reflect Laramide events. Latitude and longitude approximate. Age recalculated using constants of Steiger and Jager (1977).	Kuman and Gavilan, 1965; Khudoley, 1967a,b; Meyerhoff and others, 1969
C-00-31A	21.7520	-78.5045	Volcanic rock	Illite	40/39	79.8	0.4	Approximate location. El Pilar deposit in Caobilla Formation. Retention age 79.8±0.4 Ma. First step of analysis was lost, only retention age reported.	Kesler and others, 2004
C-00-30B	21.8261	-78.5761	Volcanic rock	Illite	40/39 Total fusion	76.7	0.2	Approximate location. San Nicolas deposit in Caobilla Formation. Retention age 80.5±0.2 Ma.	Kesler and others, 2004
GME-322	21.8353	-79.6647	Eclogite	Muscovite	K/Ar	71.7	5	All locations from this source are approximate generalities. Apo-eclogite rock, Loma la Gloria Formation from south of Sancti Spiritus Mountains. Reported age was 71 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
F25-10	21.8547	-79.6397	Metabasite	Paragonite	K/Ar	68	2	All locations from this source are approximate generalities. Metabasite from complex of Escambray, Caracusey lithofacies; northeast of Sancti Spiritus Mountains. Age as reported, no analytical data reported.	Somin and others, 1992
F50-7	21.8547	-79.6397	Eclogite	Paragonite	K/Ar	73	4	All locations from this source are approximate generalities. Eclogite from complex of Escambray, Caracusey lithofacies; northeast of Sancti Spiritus Mountains. Age as reported, no analytical data reported.	Somin and others, 1992
Unknown	21.8594	-82.7542	Schist	Muscovite	K/Ar	53.7	3	Muscovite schist, Complejo carbonato - terrigeno, Isla de Pinos, Loma el Soldado [Carbonate complex - terrigenous, Isle of Pines, Loma el Soldado] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	21.8594	-82.7542	Greisen	Muscovite	K/Ar	64.5	4	Greisen vein, Complejo carbonato - terrigeno, Isla de Pinos, Presa del Medio-las Nuevas [Carbonate complex - terrigenous, Isle of Pines, New middle dam] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
E42-A	21.8658	-79.5247	Pegmatite	Muscovite	K/Ar	96.4	4	All locations from this source are approximate generalities. Pegmatite vein in the area of the Yayabo Formation, northeast of Sancti Spiritus Mountains. Reported age was 85 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
ES-5	21.8658	-79.5247	Schist	Hornblende	K/Ar	42.3	5	All locations from this source are approximate generalities. Mica-hornblende schist, Yayabo Formation from northeast of Sancti Spiritus Mountains. Reported age was 43 Ma, recalculated here based on reported analytical data. Hornblende was only 0.44% K_2O.	Somin and others, 1992
PE2/15	21.8890	-79.4474	Monzodiorite	Zircon	U/Pb SHRIMP	83.1	0.8	Unfoliated monzodiorite from drill core located southwest of Sancti Spiritus. 6 grains analyzed.	Rojas-Agramonte and others, 2011
Unknown	21.9030	-80.1501	Amphibolite	Hornblende	K/Ar	42.0	5	Complejo carbonato - terrigeno, Escambray extremo oriental, anfiolita micacea [Carbonate complex - terrigenous, east end Escambray] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	21.9030	-80.1501	Schist	Muscovite	K/Ar	58.6	3	Complejo carbonato - terrigeno, Escambray extremo oriental, muscovite calc-schist [Carbonate complex - terrigenous, east end Escambray] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	21.9030	-80.1501	Schist	Muscovite	K/Ar	59.6	4	Complejo carbonato - terrigeno, Escambray extremo oriental, muscovite calc-schist [Carbonate complex - terrigenous, east end Escambray] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	21.9030	-80.1501	Schist	Muscovite	K/Ar	64.5	4	Complejo carbonato - terrigeno, Escambray extremo oriental, muscovite calc-schist [Carbonate complex - terrigenous, east end Escambray] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
E37-6	21.9140	-79.4982	Gneiss	Zircon	U/Pb SHRIMP	92.8	0.7	Fresh, fine-grained, sheet-like meta-trondhjemite body as much as 1 m wide. 5 grains analyzed most of which were low in U and therefore accumulated little radiogenic Pb, which resulted in large errors in the $^{207}Pb/^{235}U$ and $^{207}Pb/^{206}Pb$ ratios. However, the $^{206}Pb/^{238}U$ ratios are precise, and the concordant results can be combined to a mean age of 92.8±0.7 Ma, the time of trondhjemite emplacement. Deformation in this rock must be younger than this age.	Rojas-Agramonte and others, 2011
F25-10	21.9143	-79.6395	Metabasite	Paragonite	K/Ar	68	2	Escambray unit, approximate location.	Hatten and others, 1988
C-00-29Ba	21.9208	-78.6739	Altered rock	Alunite	40/39 Total fusion	76.6	0.3	Approximate location. Loma Carolina deposit in Caobilla Formation.	Kesler and others, 2004
C-00-29Bb						76.6	0.3		
F50-7	21.9267	-79.6593	Eclogite	Paragonite	K/Ar	73	4	Escambray unit, approximate location.	Hatten and others, 1988
ATP-1	21.9364	-80.1533	Schist	Muscovite	K/Ar	59.4	3	All locations from this source are approximate generalities. Muscovite-calcite schist, Loma la Gloria Formation from Trinidad Mountains. Reported age was 60 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
CU116	21.9393	-79.5412	Amphibolite	Zircon	U/Pb SHRIMP	93.0	0.9	Foliated amphibolite exposed in the Yayabo River west of Sancti Spiritus. Only a few idiomorphic zircons recovered from this sample show oscillatory zoning in CL images. Six grains were analyzed and provided concordant results. Four of these are well grouped and define a mean $^{206}Pb/^{238}U$ age of 93.0±0.9 Ma, whereas two grains, optically indistinguishable from the others, are much older at 315±2 and 903±7 Ma and are interpreted as xenocrysts.	Rojas-Agramonte and others, 2011
				Zircon	U/Pb SHRIMP	315	2		
				Zircon	U/Pb SHRIMP	903	7		
ASP-1	21.9417	-79.5822	Schist	Muscovite	K/Ar	59.3	4	All locations from this source are approximate generalities. Calcite-muscovite schist from complex of Escambray, Caracusey lithofacies; northeast of Sancti Spiritus Mountains. Reported age was 61 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
ASP-2	21.9417	-79.5822	Schist	Muscovite	K/Ar	66.4	4	All locations from this source are approximate generalities. Calcite-muscovite schist from complex of Escambray, Caracusey lithofacies; northeast of Sancti Spiritus Mountains. Reported age was 66 Ma, recalculated here based on reported analytical data.	Somin and others, 1992
C57	21.9443	-79.4971	Quartz monzonite	Unknown	K/Ar	85	1	Poorly foliated quartz monzonite, drill core near Sancti Spiritus; Manicaraguan Batholith.	Hatten and others, 1988; Rojas-Agramonte and others, 2011
				Zircon	U/Pb SHRIMP	87.2	1.2	Poorly foliated quartz monzonite, drill core near Sancti Spiritus; Manicaraguan Batholith. 6 grains analyzed.	Rojas-Agramonte and others, 2011
					TIMS Multigrain	93.0	10	Poorly foliated quartz monzonite, drill core near Sancti Spiritus; Manicaraguan Batholith.	Bibikova and others, 1988; Rojas-Agramonte and others, 2011

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
C60	21.9609	-79.4967	Quartz monzonite	Zircon	TIMS Multigrain	89.3	0.45	Foliated quartz monzonite, drill core west of Sancti Spiritus; Manicaraguan Batholith. Two splits run, coarse and fine, yielding 89.4 Ma and 89.1 Ma, respectively, both with 0.45 error.	Rojas-Agramonte and others, 2011
						89.3	2	Foliated quartz monzonite, drill core west of Sancti Spiritus; Manicaraguan Batholith.	Hatten and others, 1988; Rojas-Agramonte and others, 2011
7CF3A	21.9631	-80.1880	Greenschist	Phengite	40/39 Total fusion	57.20	1.80	Approximate location derived from poor map. La Sierrita Nappe, metacarbonate. 7 grains averaged.	Despaigne-Diaz and others, 2016
CU114	21.9683	-79.5045	Amphibolite	Zircon	U/Pb SHRIMP	93.5	1.0	Strongly deformed amphibolite derived from pyroclastic rock of dacitic composition from the Mabujina metavolcanic suite. 6 grains analyzed, 4 yielding 93.5±1.0 Ma and 2 inherited, rounded grains yielded 471±4 and 1,059±8 Ma.	Rojas-Argamonte and others, 2011
						471	4		
						1,059	8		
F94	21.9748	-79.8560	Blueschist	Glaucophane	K/Ar	56	3	Escambray unit, approximate location.	Hatten and others, 1988
				Phengite	K/Ar	66	1		
F94-1	21.9748	-79.8560	Blueschist	Phengite	K/Ar	68	1	Escambray unit, approximate location.	Hatten and others, 1988
				Glaucophane	K/Ar	210	13		
LV69	21.9808	-79.7015	Eclogite	Whole rock	Rb/Sr	65.1	3.0	MSWD = 83. An age of 66.0±1.7 Ma (MSWD = 5.3); intercept at 0.705721±0.000046 is obtained when garnet analytical point is removed. Sancti Spiritus Dome, collected from eclogitic lens in serpentinite. Matrix is dominated by sodic-calcic amphibole and epidote. Minerals found in sample are garnet, sodic-calcic amphibole, omphacite, epidote, phengite, glaucophane, quartz, rutile, and apatite. Garnet is generally euhedral and often rimmed by chlorite. However, some unaltered rims display textural equilibrium with garnet, omphacite, phengite, and sodic-calcic amphibole. Garnet cores are rich in quartz, rutile, apatite, epidote, graphite, and blue-green amphibole inclusions. Locally, glaucophane is present at edge of garnet rimmed by chlorite, attesting to blueschist-facies overprint. Approximate location.	Schneider and others, 2004
				Barroisite	40/39 Plateau	69.1	1.3	Sancti Spiritus Dome, collected from eclogitic lens in serpentinite; 95.5% Ar release for barroisite and 93.0% of Ar released for phengite. Matrix is dominated by sodic-calcic amphibole and epidote. Minerals found in sample are garnet, sodic-calcic amphibole, omphacite, epidote, phengite, glaucophane, quartz, rutile, and apatite. Garnet is generally euhedral and often rimmed by chlorite. However, some unaltered rims display textural equilibrium with garnet, omphacite, phengite, and sodic-calcic amphibole. Garnet cores are rich in quartz, rutile, apatite, epidote, graphite, and blue-green amphibole inclusions. Locally, glaucophane is present at edge of garnet rimmed by chlorite, attesting to blueschist-facies overprint. Approximate location.	
				Phengite	40/39 Plateau	69.3	0.6		
CU16	21.9917	-79.6927	Eclogite	Phengite	40/39 Plateau	71.0	0.7	99.2% of Ar released.	Schneider and others, 2004
				Paragonite	40/39 Total fusion	69.9	0.7	Paragonite grain from sample was mostly degassed in two steps because of its low K concentration; however, it did yield total gas age of 68.9±0.7.	
LV66	21.9917	-79.6927	Eclogite	Isochron	Rb/Sr	65	15	MSWD = 206. (Excluding garnet and clinopyroxene), isochron age is 69.7±0.8 Ma MSWD±0.49, ($^{87}Sr/^{86}Sr$) ratio of 0.705511±0.000010. Garnet, omphacite, epidote, glaucophane, paragonite, phengite, quartz, rutile, and albite. Epidote and white mica define main foliation. Garnet occurs as (1) large porphyroblasts (1–3 mm) with inclusion-rich cores (inclusions of quartz, rutile, apatite and graphite) surrounded by inclusion-poor rims, and (2) inclusion-poor small neoblasts (100–25 µm). Large porphyroblasts are optically zoned with a darker core and appear to be in textural equilibrium with omphacite, epidote, and mica. Glaucophane is optically zoned suggesting three growth stages. There is a clear inner core, a dark outer core edged by omphacite and garnet, and a clear rim that includes omphacite and garnet. Epidote is present as inclusions in garnet and in matrix. Loma la Gloria Formation, approximate location.	Schneider and others, 2004
LV66	21.9917	-79.6927	Eclogite	Phengite	40/39 Plateau	68.2	0.6	Loma la Gloria Formation: 99.2% of Ar released. Spot fusion analyses on second grain gave ages between 72.2 and 66.6 Ma. Approximate location.	Schneider and others, 2004
F94	21.9945	-79.9803	Altered rock	Muscovite	K/Ar	67.7	1	All locations from this source are approximate generalities. Winchite-garnet-albite rock, Algarrobo Formation from northeast of Trinidad Mountains. Ages recalculated based on reported analytical data. Second albite split was only 0.039% K_2O; date is quite dubious.	Somin and others, 1992
				Amphibole	K/Ar	69.1	2		
				Albite	K/Ar	159.6	15		
GME-81-3	21.9945	-79.9803	Blueschist	Paragonite	K/Ar	66.5	8	All locations from this source are approximate generalities. Glaucophane schist, Algarrobo Formation from northeast of Trinidad Mountains. Age recalculated based on reported analytical data.	Somin and others, 1992

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
SM-47	22.0090	-80.2782	Greenschist	Phengite	40/39 Total fusion	59.4	0.8	Approximate location derived from poor map. La Sierrita Nappe, carbonate mica schist. 7 of 11 grains averaged. Isochron reflects all 11 grains.	Despaigne-Diaz and others, 2016
F89-1	22.0203	-79.9905	Eclogite	Paragonite	K/Ar	74	4	Escambray unit, approximate location.	Hatten and others, 1988
				Hornblende	K/Ar	255	7		
				Zircon	TIMS Multigrain	102	2		
G-104	22.0217	-80.2768	Greenschist	Phengite	40/39 Total fusion	58.01	1.1	Approximate location derived from poor map. La Sierrita Nappe, carbonate mica schist. 8 grains averaged.	Despaigne-Diaz and others, 2016
G-103	22.0226	-80.2768	Greenschist	Phengite	40/39 Total fusion	56.32	0.40	Approximate location derived from poor map. La Sierrita Nappe, calcschist. 13 grains averaged.	Despaigne-Diaz and others, 2016
G-102	22.0260	-80.2737	Greenschist	Phengite	40/39 Total fusion	56.7	1.84	Approximate location derived from poor map. La Sierrita Nappe, calcschist. 10 grains averaged.	Despaigne-Diaz and others, 2016
G2057	22.0270	-79.4439	Pegmatite	Isochron	Rb/Sr	74	1	Approximate location of Yayabo Quarry based on Google Earth. Isochron age combining whole rock and fine-grained white mica. Interpreted as a cooling age. Initial ratio of 0.7046.	Grafe and others, 2001
				Isochron	Rb/Sr	81.8	0.4	Isochron age combining whole rock, multiple phases of coarse-grained white mica, and an indeterminate phase. Interpreted as a crystallization age. Initial ratio of 0.7034.	
G2061	22.0270	-79.4439	Pegmatite	Muscovite	40/39 Total fusion	72.2	0.6	Approximate location of Yayabo Quarry based on Google Earth. Interpreted as a cooling age (350 to 400 °C).	Grafe and others, 2001
				Isochron	Rb/Sr	74.6	0.7	Isochron age combining whole rock, multiple phases of fine-grained white mica, and one phase of coarse-grained white mica. Interpreted as a metamorphic age. Initial ratio of 0.7051.	
				Isochron	Rb/Sr	80	1	Isochron age combining whole rock and one phase of coarse-grained white mica. Interpreted as a crystallization age. Initial ratio of 0.7039.	
J77	22.0277	-79.8185	Orthogneiss	Biotite	K/Ar	73	1	Meta-granitoid, orthogneiss, approximate location.	Hatten and others, 1988
				Hornblende	K/Ar	84	3		
SR-65	22.0309	-80.2543	Greenschist	Phengite	40/39 Total fusion	37	7	Approximate location derived from poor map. La Sierrita Nappe, carbonate mica schist. 7 grains averaged. Considered spurious age, mixing S1 and S2 foliations.	Despaigne-Diaz and others, 2016
SR-65b	22.0317	-80.2519	Greenschist	Phengite	40/39 Total fusion	57.4	3	Approximate location derived from poor map. La Sierrita Nappe, carbonate mica schist. 9 grains averaged.	Despaigne-Diaz and others, 2016
J66-1	22.0408	-79.8498	Orthogneiss	Biotite	K/Ar	70	1	Meta-granitoid, orthogneiss, approximate location.	Hatten and others, 1988
				Hornblende	K/Ar	95	2		
F66-1	22.0483	-79.8906	Metadiorite	Zircon	TIMS Multigrain	93.8	0.47	Metadiorite vein in amphibolite was collected 1.5 km NW of Guinıa de Miranda and some 200 m west of sample F68, also in the Jicaya River. Xenoliths of amphibolite occur with sharp contacts within the metadiorite, although schistosity seems common to both rocks. Two zircon fractions, one representing a coarse “tap” and one a fine “tap,” were analyzed by conventional TIMS technique and yielded identical $^{206}Pb/^{238}U$ ages of 94.1±0.47 and 93.5±0.47 Ma, respectively. This is structurally one of the youngest of the Rio Jicaya granitoids, since it cuts an older foliation in the intruded amphibolites.	Rojas-Agramonte and others, 2011
J66-4	22.0498	-79.8335	Orthogneiss	Biotite	K/Ar	69	2	Meta-granitoid, orthogneiss, approximate location.	Hatten and others, 1988
				Hornblende	K/Ar	78	3		
J68-3	22.0527	-79.8528	Pegmatite	Muscovite	K/Ar	84	1	Undeformed pegmatite cutting amphibolite. Manicaragua unit, approximate location.	Hatten and others, 1988
SM-45	22.0585	-80.2828	Greenschist	Phengite	40/39 Total fusion	60.56	0.66	Approximate location derived from poor map. La Sierrita Nappe, carbonate mica schist. 6 grains averaged.	Despaigne-Diaz and others, 2016
CU32	22.0483	-79.8433	Gneiss	Zircon	U/Pb SHRIMP	122.1	2.1	Massive but well-foliated trondhjemite, was collected in the Jicaya River just south of F77. The zircons are idiomorphic and stubby to long prismatic and show excellent magmatic zoning under CL. Eight grains were analyzed on SHRIMP II, and all analyses produced concordant results. Seven grains define a cluster with a mean $^{206}Pb/^{238}U$ age of 112.1±2.1 Ma, which we consider reflects the time of trondhjemite emplacement. One grain is significantly older and has a concordant $^{207}Pb/^{206}Pb$ age of 1045±17 Ma which we interpret as an inherited zircon xenocryst.	Rojas-Agramonte and others, 2011
						1,045	17		
CU36503	22.0502	-79.845	Trondhjemite	Zircon	U/Pb SHRIMP	84.2	0.8	Gray-whitish, fine- to medium-grained trondhjemite (quartz-bearing hornblende diorite) collected near Guinıa de Miranda in the Jicaya River. 8 grains analyzed.	Rojas-Agramonte and others, 2011
SM-47	22.05968	-80.2782	Greenschist	Phengite	40/39 Total fusion	56.8	1.1	Approximate location derived from poor map. La Sierrita Nappe, carbonate mica schist. 4 of 11 grains averaged. Isochron reflects all 11 grains.	Despaigne-Diaz and others, 2016

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
F012	22.06228	-79.8855	Granodiorite	White mica	40/39 Total fusion	73.8	0.5	Approximate location based on Google Earth. Fine-grained white mica, interpreted as cooling age, 350 to 400 °C.	Grafe and others, 2001
				Isochron	Rb/Sr	82.1	0.6	Isochron age based on plagioclase, whole rock, and multiple phases of white mica. Interpreted as metamorphic age. Initial ratio 0.70335.	
F019	22.06228	-79.8855	Gneiss	Muscovite	Rb/Sr	73	3	Approximate location based on Google Earth. Biotite gneiss. Table 8 in Grafe and others (2001) reports this is a mineral age based on fine-grained white mica. Interpreted as cooling age. Table 6 in Grafe and others (2001) reports this is an isochron age combining plagioclase, whole rock, and biotite and gives an initial ratio of 0.70297.	Grafe and others, 2001
S141	22.065	-79.8869	Pegmatite	White mica	Rb/Sr	73	1	Approximate location based on Google Earth. Mineral age based on fine-grained white mica from shear zones. Interpreted as a cooling age. Initial ratio 0.70336.	Grafe and others, 2001
				Isochron	Rb/Sr	84.9	0.9	Isochron age based on contributions from whole rock, fine-grained white mica, and one phase of coarse-grained white mica. Interpreted to be metamorphic age. Initial ratio 0.70334.	
				Isochron	Rb/Sr	87.6	0.4	Isochron age based on contributions from whole rock and multiple phases of coarse white mica. Interpreted to be crystallization age. Initial ratio 0.70334.	
F68	22.0653	-79.8867	Orthogneiss	Zircon	U/Pb	110	10	Trondhjemitic orthogneiss. Earliest phase of magmatism.	Bibikova and others, 1988; Rojas-Agramonte and others, 2011
F68	22.0653	-79.8867	Orthogneiss	Zircon	U/Pb SHRIMP	132.9	1.4	Trondhjemitic orthogneiss, 6 grains. Earliest phase of magmatism.	Rojas-Agramonte and others, 2011
F68	22.0653	-79.8867	Orthogneiss	Zircon	TIMS Multigrain	133.0	2.0	Trondhjemitic orthogneiss. Earliest phase of magmatism.	Rojas-Agramonte and others, 2011
F77	22.0654	-79.8904	Gneiss	Zircon	U/Pb	110	15	Age reported here is that determined by Bibikova and others (1988). Using conventional TIMS techniques, Bibikova and others (1988) analyzed one multigrain zircon fraction from the same sample and reported a $^{206}Pb/^{238}U$ age of 108±15 Ma. They combined this analysis with data for another multigrain fraction from nearby sample F77 ($^{206}Pb/^{238}U$ age of 115±10 Ma) and reported a mean age of 110±15 Ma for both samples, which is cited in the literature as representing Mabujina granitoid magmatism (e.g., Millán 1996; Sukar and Perez 1997). However, a plot in a concordia diagram of the two samples analyzed by Bibikova and others (1988) shows these analyses to be strongly discordant, and in such cases $^{206}Pb/^{238}U$ ages are not geologically meaningful. The discordancy may partly be due to Pb loss and/or inheritance, depending on the balance between these two parameters. Sample collected in the Jicaya River some 2 km east of Guinıa de Miranda village.	Bibikova and others, 1988; Rojas-Agramonte and others, 2011
F77	22.0654	-79.8904	Gneiss	Zircon	U/Pb Multigrain	123.9	0.62	Tonalitic gneiss, bulk sample. Collected in the Jicaya River some 2 km east of Guinıa de Miranda village; relict magmatic features are less clear than in above cases. A bulk fraction of this sample was analyzed conventionally in Santa Barbara and provided a $^{206}Pb/^{238}U$ age of 123.9±0.62 Ma, whereas inheritance is clearly indicated by a $^{207}Pb/^{206}Pb$ age of 225±8 Ma for this sample.	Rojas-Agramonte and others, 2011
F009	22.0661	-79.8849	Pegmatite	Isochron	Rb/Sr	86.2	0.5	Approximate location based on Google Earth. Isochron age based on coarse-grained feldspar, whole rock, and multiple phases of coarse-grained white mica. Initial ratio 0.70342.	Grafe and others, 2001
S157	22.0747	-79.9761	Pegmatite	Isochron	Rb/Sr	84.4	4	Approximate location of Road Manicaragua site based on Google Earth. Isochron age combining feldspar, whole rock, and white mica. Interpreted as a mixing of crystallization and metamorphic age. Initial ratio of 0.70351.	Grafe and others, 2001
PM<C-4	22.0842	-80.0183	Amphibolite	Whole rock	K/Ar	52	1	Amphibolite, approximate location.	Hatten and others, 1988
CU36005	22.0918	-79.9191	Tonalite	Zircon	U/Pb SHRIMP	87.0	0.6	Unfoliated gray biotite-hornblende tonalite collected from a roadcut 8.2 km south of Manicaragua, on the road to Fomento. 9 grains analyzed.	Rojas-Agramonte and others, 2011
Meyerhoff_2	22.0985	-79.9879	Granodiorite	Whole rock	K/Ar	176	17.6	Near Manicaragua, southern Las Villas Province, north side of Sierra de Trinidad. Early Jurassic on Harland and others (1964) scale. Khudoley was skeptical of validity of this date. Hatten and others (1958, unpublished Cuban government report) believed that this is a middle Cretaceous intrusive. Meyerhoff believed that it may be late Paleozoic. Khudoley believed that the pluton may be Late Jurassic, but more probably is middle Cretaceous. Latitude and longitude approximate. Age recalculated with constants of Steiger and Jager (1977).	Meyerhoff and others, 1969
CU36517	22.1022	-79.9187	Diorite	Zircon	U/Pb SHRIMP	88.7	0.7	Altered, unfoliated diorite collected in the El Marino River some 7 km southeast of Manicaragua, near the road from Manicaragua to Guinıa de Miranda. 5 grains analyzed.	Rojas-Agramonte and others, 2011
CU204	22.1106	-79.2351	Trondhjemite	Zircon	U/Pb SHRIMP	76.6	0.4	Tres Guanos, 8 grains.	Rojas-Agramonte and others, 2010
						268.8	1.4	Tres Guanos, 1 grain.	

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
PG-1	22.1158	-79.9593	Amphibolite	Hornblende	K/Ar	77	8	Amphibolite, approximate location.	Hatten and others, 1988
Meyerhoff_1	22.1191	-79.2171	Quartz monzonite	Biotite	K/Ar	62.5	1.9	700 m S. 12° W. of Tres Guanos, Las Villas Province, at east end of Jarahueca fenster; in stream bed along road. Reported erroneously by Meyerhoff and Hatten (1968) as 67 Ma and by Khudoley (1967b) as 57 Ma. Date believed to be from secondary biotite formed during Laramide orogeny. Hatten and others (1958, unpublished Cuban government report) believed that pluton is a late Paleozoic intrusion. Khudoley (1967a,b) believed that it is Late Jurassic. Area of outcrop is overlain by Neocomian to Aptian rocks. Location approximate. Age recalculated with constants of Steiger and Jager (1977).	Khudoley, 1967a,b; Meyerhoff and others, 1969
CU202	22.1194	-79.2251	Trondhjemite	Zircon	U/Pb SHRIMP	71.1	0.4	Tres Guanos, 7 grains.	Rojas-Agramonte and others, 2010
						536	3	Tres Guanos, 1 grain.	
F60-2	22.1205	-79.9968	Orthogneiss	Biotite	K/Ar	73	2	Meta-granitoid, orthogneiss, approximate location.	Hatten and others, 1988
				Hornblende	K/Ar	73	2		
CU6	22.1594	-79.9790	Tonalite	Zircon	U/Pb SHRIMP	87.4	1.3	Weakly foliated, medium-grained, hornblende-bearing tonalite collected below bridge over the Arimao River in town of Manicaragua. 6 grains analyzed.	Rojas-Agramonte and others, 2011
CU12	22.3	-79.9583	Trondhjemite	Zircon	U/Pb SHRIMP	85.9	0.6	Collected from about 1-m^3-sized fresh block of undeformed trondhjemite lying near road from Santa Clara to Manicaragua in area of Cerro El Chivo, close to National Highway, 9 grains dated.	Rojas-Agramonte and others, 2010
CU180	22.3648	-79.6411	Tonalite	Zircon	U/Pb SHRIMP	74.8	0.7	San Andres body, Las Bocas Group, 7 grains.	Rojas-Agramonte and others, 2010
CU181	22.3648	-79.6411	Granite	Zircon	U/Pb SHRIMP	76.3	0.5	San Andres body, Las Bocas Group, 7 grains.	Rojas-Agramonte and others, 2010
82-72	22.4808	-83.9220	Blueschist	White mica	K/Ar	113.1	5	All locations from this source are approximate generalities. Garnet-glaucophane rock, inclusions in serpentinite mélange. Sierra de los Organos. Reported age 113 Ma. Recalculated here based on reported analytical data.	Somin and others, 1992
Unknown	22.5055	-83.5905	Gneiss	Muscovite	K/Ar	53.7	6	Complejo de gneis del Guayabo, Noroeste de Pinar del Rio, Sur de Falla Pinar [Complex of Gneiss del Guayabo, Northwest of Pinar del Rio, South of Falla Pinar] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.5055	-83.5905	Gneiss	Muscovite	K/Ar	69.4	3	Complejo de gneis del Guayabo, Noroeste de Pinar del Rio, Sur de Falla Pinar [Complex of Gneiss del Guayabo, Northwest of Pinar del Rio, South of Falla Pinar] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.5055	-83.5905	Gneiss	Muscovite	K/Ar	72.3	1.4	Complejo de gneis del Guayabo, Noroeste de Pinar del Rio, Sur de Falla Pinar [Complex of Gneiss del Guayabo, Northwest of Pinar del Rio, South of Falla Pinar] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Western constants were in use.	Somin and Millán, 1977 (in Spanish)
D570E	22.5483	-79.8686	Altered rock	Unknown	K/Ar	88.5	9	All locations from this source are approximate generalities. Apo-eclogite garnet-hornblende rock, inclusions in serpentinite mélange. Near Santo Domingo, northern Villa Clara Province. Reported age 89 Ma. Recalculated here based on reported analytical data.	Somin and others, 1992
Unknown	22.5961	-79.8777	Gneiss	Whole rock	K/Ar	64.5	7	Complejos de inclusiones en serpentinita y en zonas de mélange; Sierra del Rosario. Metasomatic plagioclase gneiss [Complexes of inclusions in serpentinite and mélange zones; Sierra de los Organos] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.5961	-79.8777	Schist	Whole rock	K/Ar	125	5	Complejos de inclusiones en serpentinita y en zonas de mélange; Sierra del Rosario. Quartz-glaucophane schist [Complexes of inclusions in serpentinite and mélange zones; Sierra de los Organos] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
GM206	22.6672	-80.0331	Amphibolite	Whole rock	K/Ar	59.4	12	Albite-garnet amphibolite. Complejos de inclusiones en serpentinita y en zonas de melange; Sierra de Rancho Veloz. Anfibolita ganaffera [Complex of inclusions in serpentinite and melange zones de Rancho Veloz, northern Villa Clara Province]. All locations from sources are approximate generalities. Reported age was 60 Ma, recalculated from analytical data.	Somin and Millán, 1977 (in Spanish); Somin and others, 1992

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Cuba—Continued									
B73	22.77	-83.3714	Amphibolite	Hornblende	K/Ar	93.6	12	All locations from this source are approximate generalities. Garnet amphibolite, inclusions in serpentinite mélange. Sierra del Rosario. Reported age 93 Ma. Recalculated here based on reported analytical data.	Somin and others, 1992
Unknown	22.8192	-83.3192	Amphibolite	Whole rock	K/Ar	72.3	10	Complejo anfibolitico, Faja que rodea al macizo de escambray (Girdle that surrounds Escambray massif); amphibolite complex. Location not reported, coordinates here inferred from geologic map. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8192	-83.3192	Amphibolite	Whole rock	K/Ar	79.1	1.6	Complejo anfibolitico, Faja que rodea al macizo de escambray (Girdle that surrounds Escambray massif); amphibolite complex. Location not reported, coordinates here inferred from geologic map. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8192	-83.3192	Amphibolite	Whole rock	K/Ar	85	1.8	Complejo anfibolitico, Faja que rodea al macizo de escambray (Girdle that surrounds Escambray massif); amphibolite complex. Location not reported, coordinates here inferred from geologic map. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8192	-83.3192	Amphibolite	Whole rock	K/Ar	87	3	Complejo anfibolitico, Faja que rodea al macizo de escambray (Girdle that surrounds Escambray massif); amphibolite complex. Location not reported, coordinates here inferred from geologic map. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8364	-80.1901	Eclogite	Muscovite	K/Ar	112.3	5	Complejos de inclusiones en serpentinita y en zonas de mélange; Sierra del Rosario. [Complexes of inclusions in serpentinite and mélange zones; Sierra de los Organos] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8424	-83.3563	Amphibolite	Whole rock	K/Ar	29.3	2	Complejos de inclusiones en serpentinita y en zonas de mélange; Sierra del Rosario. anfibolita ganaffera [Complexes of inclusions in serpentinite and mélange zones; Sierra del Rosario] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8424	-83.3563	Amphibolite	Whole rock	K/Ar	56.7	2	Complejos de inclusiones en serpentinita y en zonas de mélange; Sierra del Rosario. anfibolita ganaffera [Complexes of inclusions in serpentinite and mélange zones; Sierra del Rosario] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8424	-83.3563	Amphibolite	Hornblende	K/Ar	92.8	12	Complejos de inclusiones en serpentinita y en zonas de mélange; Sierra del Rosario. anfibolita ganaffera [Complexes of inclusions in serpentinite and mélange zones; Sierra del Rosario] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.8424	-83.3563	Amphibolite	Whole rock	K/Ar	~103		Complejos de inclusiones en serpentinita y en zonas de mélange; Sierra del Rosario. [Complexes of inclusions in serpentinite and mélange zones; Sierra del Rosario] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
GM203-3	22.8929	-79.9312	Amphibolite	Hornblende	K/Ar	59.7	12	Albite-garnet amphibolite. Complejos de inclusiones en serpentinita y en zonas de mélange; Zona de mélange de Rancho Veloz. anfibolita ganaffera [Complexes of inclusions in serpentinite and mélange zones of Rancho Veloz, northern Villa Clara Province] Location not reported, coordinates here inferred. Reported age was 64 Ma, recalculated from analytical data.	Somin and Millán, 1977 (in Spanish); Somin and others, 1992
F201 Zir	22.9021	-80.5683	Granite	Zircon	U/Pb Multigrain	172.5		Rio Cana Granite, 2 fractions, coarse and fine grained. Data reported here for the fine-grained fraction; coarse-grained fraction yielded: $^{206}Pb/^{238}U$ = 197.3±0.4 Ma, $^{207}Pb/^{235}U$ = 206.2±0.6 Ma, and $^{207}Pb/^{206}Pb$ = 309±3 Ma. No error reported.	Renne and others, 1989
CUH-4	22.9094	-80.5733	Marble	Phlogopite	40/39 Plateau	903.5	7.1	Calculated integrated age. No location provided.	Renne and others, 1989
Unknown	22.9159	-80.5716	Granite	Whole rock	K/Ar	136.7	5	Granito de Sierra Morena (Rio Cana Granite) Location not reported, coordinates inferred from geologic map. Date recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish), 1981 (in Russian); Renne and others, 1989

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
					Cuba—Continued				
Unknown	22.9159	-80.5716	Granite	Whole rock	K/Ar	142	5	Granito de Sierra Morena (Rio Cana Granite) Location not reported, coordinates here inferred from geologic map. Date recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish), 1981 (in Russian); Renne and others, 1989
Unknown	22.9159	-80.5716	Granite	Whole rock	K/Ar	146.5	5	Granito de Sierra Morena (Rio Cana Granite) Location not reported, coordinates here inferred from geologic map. Date recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish), 1981 (in Russian); Renne and others, 1989
Unknown	22.9618	-80.6690	Marble	Phlogopite	K/Ar	884	25	Complejo de marmol de Sierra Morena, Suroeste de Sierra Morena Loc. Socorro [Marble Complex of Sierra Morena, Southwest of Sierra Morena Loc. Socorro] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
Unknown	22.9618	-80.6690	Marble	Phlogopite	K/Ar	918	25	Complejo de marmol de Sierra Morena, Suroeste de Sierra Morena Loc. Socorro [Marble Complex of Sierra Morena, Southwest of Sierra Morena Loc. Socorro] Location not reported, coordinates here inferred. Age recalculated using constants of Steiger and Jager (1977) assuming old Russian constants were in use.	Somin and Millán, 1977 (in Spanish)
					Dominican Republic				
RD-72-10	18.5569	-70.1444	Tonalite	Biotite	K/Ar	80.9	2.0	Medina stock. 3 km northwest of Medina (toward Madrigal) on Arroyo Sosua (about 0.25 km east of road). Essentially equigranular tonalite with slightly larger hornblende (19%); remainder is quartz (24%), plagioclase (40%), K-feldspar (2%), and biotite (14%). Low K_2O biotite. Location from Kesler and others (1991) differs from Bowin (1975), which was the same as sample RD-72-02.	Bowin, 1975; Kesler and others, 1991
RD-72-02	18.6028	-70.1583	Tonalite	Hornblende	K/Ar	80.9	2.0	Medina stock. 0.25 km east of bridge over Rio Haina on Madrigal-Medina Road. Equigranular medium-grained tonalite (33% quartz, 43% plagioclase, 6% K-feldspar, 11% hornblende, 6% biotite). Location from Bowin (1975). Low K_2O biotite.	Bowin, 1975; Kesler and others, 1991
				Biotite	K/Ar	80.9	2.0		
6JE34B	18.673	-70.0093	Amphibolite	Hornblende	40/39 Plateau	110.3	1.4	5 steps (7 to 11); MSWD = 0.36 (plateau), 0.29 (isochron); 70% of ^{39}Ar released. Rio Verde complex. Blasto-mylonitic amphibolite collected at Balneario Ledesma outcrop. Protolith is locally preserved in low-strain domains developed in amphibolite and consists of gabbro having MORB geochemical characteristics and weak subduction signature.	Escuder Viruete and others, 2010
6JE34D	18.673	-70.0093	Amphibolite	Hornblende	40/39 Plateau	110.7	1.6	5 steps (6 to 10); MSWD = 0.33 (plateau), 0.34 (isochron); 73.2% of ^{39}Ar released. Rio Verde complex. Sample is amphibolite with a strong fabric from Balneario Ledesma outcrop.	Escuder Viruete and others, 2010
BA-2014-1	18.7084	-69.5091	Rhyolite	Zircon	U/Pb SHRIMP	118.1	2.6	Eight spot analyses of 6 grains yielded concordant $^{206}Pb/^{238}U$ ages that range from 122.7±1.9 to 112.8±2.1 Ma, with a weighted mean of 118.1±2.6 Ma; MSWD = 2.94. $^{207}Pb/^{235}U$ age = 120.5±5 Ma, MSWD = 3.43.	Torró and others, 2017
2JE38	18.7897	-70.1375	Amphibolite	Hornblende	40/39 Plateau	118.6	1.3	Rio Verde complex. Medium- to coarse-grained amphibolite with foliation defined by altering hornblende-rich and plagioclase-rich bands. Collected near Loma Caribe Peridotite. 4 steps (4 to –7), MSWD = 0.44, 76.8% of ^{39}Ar released. Location coordinates based on Google Earth and geology; coordinates based on index map are incorrect and do not match geology or geography	Escuder Viruete and others, 2010
RD-72-18	18.75	-70.3639	Tonalite	Hornblende	K/Ar	63.0	1.5	Unnamed foliated tonalite. About 1 km southwest of sample RD-72-14 along Rancho Arriba Road. Similar to sample RD-72-14 with about 5% hornblende.	Kesler and others, 1991
RD-72-17	18.7528	-70.3556	Norite	Biotite	K/Ar	81	2	Jautia norite. 0.7 km west of eastern contact of Jautia norite on Rancho Arriba Road. Coarse-grained with quartz (28%), plagioclase (44%), hornblende (20%), and biotite (8%). Very low K_2O biotite.	Kesler and others, 1991
450	18.7667	-70.2667	Tonalite	Muscovite	K/Ar	69.7		Foliated tonalite pluton west of El Puerto. Elsewhere in paper Bowin (1975) also called sample muscovite trondhjemite.	Bowin, 1975
RD-72-14	18.7667	-70.3292	Tonalite	Biotite	K/Ar	56	2	Unnamed foliated tonalite. 10 km south of Piedra Blanca on Rancho Arriba Road and 0.25 km east of road on unnamed arroyo. Foliated rock with biotite (6%), quartz (48%), plagioclase (43%), and epidote (2%).	Kesler and others, 1991
BA-2014-7	18.7685	-69.5229	Plagiorhyolite	Zircon	U/Pb SHRIMP	115.6	1.1	Thirty-five spot analyses on zircon grains yielded concordant $^{206}Pb/^{238}U$ ages from 125.8±3.2 to 109.1±1.7 Ma, with weighed mean of 115.6±1.1 Ma, MSWD = 2.8. An inherited zircon yielded $^{206}Pb/^{238}U$ age of 277.4±3.4 Ma. Torró and others (2018) reported youngest zircon population age of 109.1±1.7 Ma.	Torró and others, 2017, 2018
B92	18.7833	-70.3043	Schist	Hornblende	K/Ar	93.3	9.3	Duarte Formation amphibolite schist in contact metamorphic aureole around foliated tonalite pluton. Recalculated using constants of Steiger and Jager (1977). Adjusted longitude to better match geology.	Bowin, 1975

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Dominican Republic—Continued									
6JE93A	18.9118	-70.3347	Gabbro	Zircon	U/Pb	125.4	0.4	Foliated gabbro. Three concordant grains in 2 fractions. Location coordinates based on Google Earth and geology; coordinates based on index map are incorrect and do not match geology or geography.	Escuder Viruete and others, 2010
BA-2014-2	18.7985	-69.5148	Plagiorhyolite	Zircon	U/Pb SHRIMP	117.2	1.0	Forty-two spot analyses on 34 zircon grains yielded concordant $^{206}Pb/^{238}U$ ages that range from 125.2±2.1 to 107.6±2.1 Ma, having weighed mean of 117.2±1 Ma, MSWD = 2.37.	Torró and others, 2017
JM9304-6272II	18.8078	-69.5722	Rhyodacite	Zircon	U/Pb Multigrain	116.0	0.8	Porphyritic dacite, intermediate-composition rhyodacite unit. Los Ranchos Formation.	Escuder Viruete and others, 2006b
BA-2014-4	18.808	-69.5147	Plagiorhyolite	Zircon	U/Pb SHRIMP	114.5	+2.7/-3.4	Only 9 U-Pb determinations on 6 distinctively scarce and small zircon grains could be obtained. Slightly discordant owing to common lead, defining a poor discordia with lower intercept age of 114.5+2.7,-3.4 Ma, MSWD = 1.1861. Spot analysis $^{206}Pb/^{238}U$ ages range from 121.2±2.0 to 110.9±3.6 Ma (common lead uncorrected), from 120.8±2.1 to 111.3±4.0 Ma (^{207}Pb corrected), and from 121.9±2.1 to 113.1±2.6 Ma (^{208}Pb corrected).	Torró and others, 2017
BA-2014-5	18.8086	-69.5179	Plagiorhyolite	Zircon	U/Pb SHRIMP	113.4	1.6	Twenty-eight spot analyses on 22 zircon grains yielded ages from 123.4±4.0 to 106.5±2.6 Ma, having weighted mean of 113.4±1.6 Ma, MSWD = 1.88. Inherited zircon grain yielded $^{206}Pb/^{238}U$ age of 628.2±12.2 Ma. Torró and others (2018) report youngest zircon population age of 106.5±2.6 Ma	Torró and others, 2017
DA-23-11-199	18.8122	-69.6210	Rhyolite	Molybdenite	Re/Os	112.6	0.4	Bayaguana: Dona Armanda deposit. Collected at a depth of 199.0 m.	Torró and others, 2017
B27f	18.8365	-70.2802	Hornblendite	Plagioclase	K/Ar	130	6.5	Approximate location. Date recalculated using critical table based on constants of Steiger and Jager (1977). Error corrected from Kesler and others (1977); original report was percentage error, not in years. Bowin's location was 18°51'N and 70°20'W, which appears incorrect.	Bowin, 1975; Kesler and others, 1977
HH9045-6272I	18.8963	-69.525	Tonalite	Hornblende	40/39 Plateau	109.8	2.2	3 steps (4 to –6), MSWD = 0.53, 60.3% of ^{39}Ar released. Coarse- to medium-grained hornblende tonalite from outcrop isolated by Haitises limestone. Sample ID shown on map is HH9274-6272-IV.	Escuder Viruete and others, 2006b
JM9070-6372IV	18.9040	-69.3222	Tonalite	Hornblende	40/39 Plateau	85.1	7.9	9 steps (1 to 8), MSWD = 0.85, 99.98% of ^{39}Ar released. Coarse-grained equigranular isotropic hornblende and biotite tonalite which constitutes facies of El Valle batholith. There is a discrepancy between this sources map and the published 1:350,000 Dominican Republic map; it is likely that the pluton is larger than that shown on the published map.	Escuder Viruete and others, 2006b
DR6	18.9230	-71.6347	Basanite	Unknown, whole rock?	K/Ar	1.1	0.5	1.988% K_2O, 5.6% radiogenic Ar. San Juan volcanic field, approximate location. Shown as DR3 on map in report.	Wadge and Wooden, 1982
EB9042	18.9263	-70.9196	Andesite	Hornblende	40/39 Plateau	69.6	0.7	Biotite-bearing porphyritic late andesite in Arroyo Limón area. Sample yielded plateau age for biotite of 69.6±0.7 Ma for high temperature six steps (6 to 11) and 72.3% of ^{39}Ar released. Inverse isochron age is 70.9±2.2 Ma. Data is reported, but only suggestion of location is Arroyo Limon area; location here is place holder, pending better data.	Escuder Viruete and others, 2007a
DDH220-163.0a	18.9383	-70.1813	Layer	Pyrite	Re/Os	114	2	Moore deposit, Pueblo Viejo ore body.	Kirk and others, 2014
DDH-177	18.9417	-70.1833	Vein	Alunite	40/39 Total fusion	65.99		Pyrite-alunite vein at 205 m depth in DDH-177 at Pueblo Viejo. No error reported, appears to be about 0.75 to 1 Ma. Approximate location derived from Kesler and others (2005b).	Kesler and others, 1981
APV11-36	18.9428	-70.1998	Quartz vein	Molybdenite	Re/Os	112.12	0.20	APV11-36, 38.5 m depth. UTM coordinates: 373666, 2094922 (zone 19), collar elevation: 211 m, azimuth: 51°, inclination: -65°.	Nelson and others, 2015; Torró and others, 2017
APV11-39A	18.9428	-70.1998	Quartz vein	Molybdenite	Re/Os	112.02	0.14	APV11-39A, 530.15 to 532.70 m depth. UTM coordinates: 373633, 2095696 (zone 19), collar elevation: 374 m, azimuth: 315°, inclination: -70°.	Nelson and others, 2015; Torró and others, 2017
APV11-40A	18.9428	-70.1998	Quartz vein	Molybdenite	Re/Os	111.47	0.12	APV11-40A, 210.75 to 212.25 m depth. UTM coordinates: 373432, 2094656 (zone 19), collar elevation: 232 m, azimuth: 40°, inclination: -70°.	Nelson and others, 2015; Torró and others, 2017
DDH-170-210	18.9433	-70.185	Quartz porphyry	Zircon	U/Pb Multigrain	110.9	0.8	30 grains dated, 3 rejected, 4 others omitted from age calculation. Approximate location. Pueblo Viejo system, lower Los Ranchos Formation.	Kesler and others, 2005a,b; Kirk and others, 2014
DDH-242-39	18.9433	-70.1817	Quartz porphyry	Zircon	U/Pb Multigrain	111.4	0.7	36 grains dated, 4 rejected. Lower Los Ranchos Formation. Approximate location.	Kesler and others, 2005a; Kirk and others, 2014
DDH-240-183	18.945	-70.1833	Quartz porphyry	Zircon	U/Pb Multigrain	111.3	0.6	28 grains dated, 3 rejected. Lower Los Ranchos Formation. Approximate location.	Kesler and others, 2005a; Kirk and others, 2014
DDH227-92a	18.9448	-70.1733	Vein	Sphalerite	Re/Os	120	2	Monte Negro deposit, Pueblo Viejo ore body.	Kirk and others, 2014
DDH227-92b	18.9448	-70.1733	Vein	Sphalerite	Re/Os	119	2	Monte Negro deposit, Pueblo Viejo ore body.	Kirk and others, 2014
DDH227-92c	18.9448	-70.1733	Vein	Sphalerite	Re/Os	116	2	Monte Negro deposit, Pueblo Viejo ore body.	Kirk and others, 2014

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Dominican Republic—Continued									
DDH227-92d	18.9448	-70.1733	Vein	Sphalerite	Re/Os	120	3	Monte Negro deposit, Pueblo Viejo ore body.	Kirk and others, 2014
DDH235-20.2a	18.9453	-70.1708	Vein	Sphalerite	Re/Os	110	2	Monte Negro deposit, Pueblo Viejo ore body.	Kirk and others, 2014
JM9176-6272IV	18.9493	-69.9152	Quartz diorite	Hornblende	40/39 Plateau	109.3	5.2	9 steps (1 to 8), MSWD = 0.65, 100% of ^{39}Ar released. Coarse- to medium-grained isotropic hornblende quartz-diorite from the rim facies of the Cevicos batholith (Sabana Grande de Boya).	Escuder Viruete and others, 2006b
DDH197-95.7a	18.9253	-70.1713	Vein	Pyrite	Re/Os	112	1	Monte Negro deposit, Pueblo Viejo ore body.	Kirk and others, 2014
DDH197-95.7b	18.9253	-70.1713	Vein	Pyrite	Re/Os	114	2	Monte Negro deposit, Pueblo Viejo ore body.	Kirk and others, 2014
JM9274-6372IV	18.9584	-69.3567	Microgabbro	Hornblende	40/39 Plateau	106.0	5.1	9 steps (1 to 8), MSWD = 1.4, 99.99% of ^{39}Ar released. Fine-grained microgabbro that crosscuts the hornblende and biotite facies of the El Valle batholith. There is a discrepancy between this sources map and the published 1:350,000 Dominican Republic map; it is likely that the pluton is larger than that shown on the published map.	Escuder Viruete and others, 2006b
RD-73-601	18.9979	-70.1343	Quartz diorite	Zircon	U/Pb Multigrain	112.9	0.9	35 grains dated, 3 rejected as inherited, 4 others omitted from age calculation as they were discordant. Approximate location. Cotui quartz diorite. Age may reflect two populations, 18 grains at 111.8±0.6 Ma and 8 grains at 116.1±0.5 Ma	Kesler and others, 2005b; Kirk and others, 2014
95101-6172IV	19.0038	-70.1394	Tonalite	Zircon	U/Pb Multigrain	115.5	0.3	Unfoliated tonalite, Zambrana batholith (Hatillo sheet area). Location is not shown on map in paper and is outside primary study area. Estimated location based on geologic map.	Escuder Viruete and others, 2006b
PD04-109-143.4	19.0042	-70.0972	Limestone	Alunite	40/39 Total fusion	47.8	0.3	Pueblo Viejo; Monte Negro deposit; Hatillo limestone. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Samples PD04-109-143.4 and PD04-109-145.8 taken from same drill hole found along a deep northwest-southeast-trending core zone of alteration that connects Moore and Monte Negro deposits. Their age difference is almost 30 Ma.	Arribas and others, 2011
PD04-109-145.8	19.0042	-70.0972	Limestone	Alunite	40/39 Total fusion	75.2	0.4	Pueblo Viejo; Monte Negro deposit; Hatillo limestone. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Samples PD04-109-143.4 and PD04-109-145.8 taken from same drill hole found along a deep northwest-southeast-trending core zone of alteration that connects Moore and Monte Negro deposits. Their age difference is almost 30 Ma.	Arribas and others, 2011
RD-73-405a	19.011	-70.1872	Limestone	Alunite	40/39 Total fusion	58.9	1.5	Pueblo Viejo; Loma la Cuaba deposit. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Sample was taken from a zone of argillic alteration collected along northwest-southeast-trending ridge that extends for about 300 m from summit of Loma la Cuaba toward Hatillo limestone. It lacks foliation and consists of enclaves containing coarse-grained (1 to 0.5 mm) alunite, diaspore, and iron-oxide pseudomorphs after pyrite.	Arribas and others, 2011
RD-73-405b				Alunite	40/39 Plateau	55.6	1.3		
RD-73-405c				Alunite	40/39 Plateau	69.0	3.7		
RD-73-405d				Alunite	40/39 Plateau	56.0	2.6		
RD-73-395a	19.0114	-70.0197	Limestone	Alunite	40/39 Plateau	66.1	4.6	Pueblo Viejo; Loma la Cuaba deposit. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Sample was taken from a zone of argillic alteration collected along northwest-southeast-trending ridge that extends for about 300 m from summit of Loma la Cuaba toward Hatillo limestone. Sample is strongly sheared parallel to regional trends owing to parallel alignment of fine-grained alunite crystals disseminated throughout rock.	Arribas and others, 2011
RD-73-395b					40/39 Total fusion	52.0	2.9		
RD-73-395c					40/39 Total fusion	61.0	0.3		
RD-73-395e					40/39 Total fusion	71.2	0.7		
328a	19.0167	-70.6167	Tonalite	Hornblende	K/Ar	88.2	2.7	Near center of El Rio batholith.	Bowin, 1975
RD-73-407a	19.0286	-70.1919	Limestone	Alunite	40/39 Plateau	47.3	0.3	Pueblo Viejo; Loma la Cuaba deposit. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Sample was taken from a zone of argillic alteration collected along northwest-southeast-trending ridge that extends for about 300 m from summit of Loma la Cuaba toward Hatillo limestone. Sample is strongly sheared and foliated parallel to regional trends owing to numerous, narrow shear zones containing pyrophyllite and alunite.	Arribas and others, 2011
RD-73-407b					40/39 Plateau	53.4	0.4		
RD-73-407d					40/39 Plateau	45.7	1.1		
RD-73-407e					40/39 Plateau	50.0	2.2		
RD-72-73	19.0547	-70.1833	Quartz keratophyre	Zircon	U/Pb Multigrain	116.9	0.9	36 grains dated, 4 rejected as inherited, 3 others omitted from age calculation. Approximate location. Quita Sueno quartz keratophyre, Los Ranchos Formation. Age may reflect two populations, 8 grains at 113.9±0.8 Ma and 21 grains at 118.6±0.5 Ma.	Kesler and others, 2005b; Kirk and others, 2014
MJ9364-5973II	19.0778	-71.0847	Andesite	Hornblende	40/39 Plateau	88.6	1.8	Hornblende- and plagioclase-bearing high-Mg porphyritic andesitic dike, intrusive in lower volcanic sequence (Tireo Formation) in Lamedero area. For 7 steps (2 to 8), hornblende plateau age is for 98.7% of ^{39}Ar released. Inverse isochron age is 89.5±5.6 Ma.	Escuder Viruete and others, 2007a

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Dominican Republic—Continued									
MJ9364B-5973II	19.0833	-71.1063	Andesite	Zircon	TIMS Multigrain	85.5	2.6	Hornblende- and plagioclase-bearing high-Mg porphyritic andesitic dike, intrusive in lower volcanic sequence (Tireo Formation) in Lamedero area. Four zircon populations, two concordant, two discordant. Age from concordant populations. Discordant grains yielded upper intercept of 2.2±1.3 Ga.	Escuder Viruete and others, 2007a
PD04-115-265	19.0868	-70.6436	Limestone	Alunite	40/39 Plateau	73.0	1.1	Pueblo Viejo; Moore deposit; Hatillo limestone. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Alunite in samples forms disseminated, white- to light-pink, fine-grained (<0.5 mm) masses, veinlets, and breccia matrix. Gold averages 2 to 3 g/t. Samples PD04-115-265 and PD04-115-266 were taken from same drill hole found along a deep northwest-southeast-trending core zone of alteration that connects the Moore and Monte Negro deposits. Although these two samples were taken 1 m apart in the core, they are almost 30 Ma different in age. Analysis of alunite in Pueblo Viejo does not yield any solid mineralization data.	Arribas and others, 2011
PD04-115-266	19.0868	-70.6436	Limestone	Alunite	40/39 Plateau	42.1	1.1	Pueblo Viejo; Moore deposit; Hatillo limestone. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Alunite in samples forms disseminated, white- to light-pink, fine-grained (<0.5 mm) masses, veinlets, and breccia matrix. Gold averages 2 to 3 g/t. Samples PD04-115-265 and PD04-115-266 were taken from same drill hole found along a deep northwest-southeast-trending core zone of alteration that connects the Moore and Monte Negro deposits. Although these two samples were taken 1 m apart in the core, they are almost 30 Ma different in age. Analysis of alunite in Pueblo Viejo does not yield any solid mineralization data.	Arribas and others, 2011
RD-72-49	19.1386	-70.6127	Hornblendite	Plagioclase	K/Ar	56.3	3.4	Approximate location described as just north of Jarabacoa in hornblendite adjacent to tonalite pluton. Date recalculated using constants of Steiger and Jager (1977).	Kesler and others, 1977
GS9724	19.174	-71.51	Andesite	K-feldspar	40/39 Plateau	66.8	0.47	High-Mg hornblende-phyric andesitic flow of upper sequence in Restauración area. Obtained plateau age from K-feldspar is 66.8±0.47 Ma for six steps (3–7) and 83.3% of ^{39}Ar released. Inverse isochron age is 67.5±2.1 Ma. Hornblende yielded imprecise plateau age of 98±17 Ma (all steps).	Escuder Viruete and others, 2007a
				Hornblende	40/39 Plateau	98	17		
FC9026-5973IV	19.1967	-71.2569	Tonalite	Hornblende	40/39 Plateau	74.9	1.8	4 steps (3 to 7), MSWD = 0.42, 89.9% of ^{39}Ar released. Medium- to coarse-grained, foliated hornblende sample from Loma del Tambor batholith in Jicome area.	Escuder Viruete and others, 2006a, 2007a
RD-72-45	19.2343	-70.9297	Tonalite	Biotite	K-Ar	33	2	EI Bao batholith. Approximate latitude and longitude determined from geologic map. About 18.2 km south on road from San Jose de las Matas to Mata Grande. Essentially equigranular tonalite with early hornblende, plagioclase, and quartz, and later plagioclase, quartz, and biotite. Consists of 26% quartz, 49% plagioclase, 21% hornblende, and 5% biotite. Low K_2O biotite.	Kesler and others, 1991
				Hornblende	K/Ar	68.4	0.9		
5JE54	19.2595	-70.7649	Amphibolite	Hornblende	40/39 Plateau	93.95	1.37	Plateau represents 7 steps, 92.5% of gas, MSWD = 0.52. Normal isochron = 94.45±5.2 Ma; inverse isochron = 92.4±8.4 Ma, MSWD = 0.52. Green-gray amphibolite with intense fabric, locally gneissic. Nematoblastic to blastomylonitic texture. Mineral assemblage composed of hornblende to actinolitic hornblende + plagioclase + epidote + white mica ± sphene ± quartz + Fe-Ti oxide. Clean, blocky to tabular, hornblende mineral separates range in size from 0.1 to 0.3 mm.	Escuder Viruete and others, 2007b
5JE56	19.2595	-70.7649	Amphibolite	Hornblende	40/39 Plateau	95.85	1.89	Plateau represents 7 steps, 75.7% of gas, MSWD = 1.00. Inverse isochron was 91.5±12.6 Ma, MSWD = 0.90. Green-gray to blue amphibolite with intense L-S fabric, defined by hornblende nematoblasts. Blastomylonitic texture. Mineral assemblage composed of hornblende to hornblende + plagioclase + epidote + sphene ± white mica ± quartz + Fe-Ti oxide. Clean, tabular, hornblende mineral separates range in size from 0.5 to 1.6 mm.	Escuder Viruete and others, 2007b
RD-72-46	19.271	-70.9465	Tonalite	Biotite	K/Ar	49	2	El Bao Batholith. About 0.3 km north of sample RD-72-45. Equigranular tonalite with 10% early hornblende, 5% late biotite, 23% quartz, and 55% plagioclase. Approximate latitude and longitude determined from geologic map. Low K_2O biotite.	Kesler and others, 1991
				Hornblende	K/Ar	70.5	0.8		
FC9052-5973IV	19.3250	-71.4979	Andesite	Hornblende	40/39 Plateau	88.9	2.6	6 steps (5 to 10), MSWD = 0.6, 92.9% of ^{39}Ar released. Hornblende- and plagioclase-phyric sample that intrudes and crosscuts sequence of metabasalt of Duarte Complex in Jicome area. Dike is apophysis of Loma de Cabrera complex in their southern intrusive contact. Location from author.	Escuder Viruete and others, 2006a, 2007b
FC9063-5973IV	19.3256	-71.2093	Amphibolite	Hornblende	40/39 Plateau	82.8	1.9	10 steps (1 to 9), MSWD = .46 (plateau) .30 (isochron), 99.99% of ^{39}Ar released. Blastomylonitic S-L sample from branch of La Meseta shear zone deforming Loma Guazumito-Los Charamicor massif in Jicome area. Protolith was low-Ti island-arc tholeiitic basalt of Tireo Formation.	Escuder Viruete and others, 2006a
RD-72-29	19.3452	-71.406	Amphibolite	Plagioclase	K/Ar	125.5	1.8	Amphibolite, approximate location described as 5 km west of Los Almacigos on Dajabon Road. Date recalculated using constants of Steiger and Jager (1977). Based on available geology, the described location is unlikely as this is deep within pluton. Location is better fit with geologic map.	Kesler and others, 1977
				Hornblende	K/Ar	126.1	1.8		

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Dominican Republic—Continued									
JE9015-5974III	19.3903	-71.4806	Tonalite	Hornblende	40/39 Plateau	73.9	.48	Foliated coarse-grained hornblende-biotite sample from late magma in Loma de Cabrera complex (Santiago Rodriguez area) that intermingles with N. 70 E trending mafic dikes in Rio Inaje area. Hornblende plateau represents four steps (4 to 8), MSWD = 1.9, 63.0% of ^{39}Ar released. Biotite plateau represents six steps (9 to 14), MSWD = 1.9 (plateau), 0.30 (isochron), 39.2% of ^{39}Ar released.	Escuder Viruete and others, 2006a
				Biotite	40/39 Plateau	76.8	.44		
RD-72-34	19.3972	-71.6167	Tonalite	Hornblende	K/Ar	49.4	0.6	Loma de Cabrera batholith. About 2.5 km south of Loma de Cabrera on road to Restauración. Porphyritic tonalite with hornblende and plagioclase phenocrysts and quartz-plagioclase-K-feldspar groundmass. Approximately 27% quartz, 46% plagioclase, 4% K-feldspar, and 21% hornblende.	Kesler and others, 1991
JE9075-5974III	19.45	-71.333	Amphibolite	Hornblende	40/39 Plateau	74	1.7	4 steps (4 to 7), 95% of ^{39}Ar released. Sample with strong fabric from La Meseta shear zone in Santiago Rodriguez area. Mafic protolith was basalt of Duarte complex.	Escuder Viruete and others, 2006a
JE9083-5874II	19.45	-71.625	Gabbro	Hornblende	40/39 Plateau	83.0	9.2	7 steps (2 to 8), MSWD = 1.4, 97.5% of ^{39}Ar released. Fine-grained sample from Loma Chaucey massif in Loma de Cabrera area. Low potassium content and very little argon release.	Escuder Viruete and others, 2006a
FC9054-5874II	19.4681	-71.65	Tonalite	Hornblende	40/39 Plateau	87.9	2.5	Coarse-grained sample from facies of Loma de Cabrera batholith. Low potassium content. Three step plateau (3 to 5), most of the ^{39}Ar (85.6% release) was released in two steps, MSWD = 1.01, Location approximate using map provided by article.	Escuder Viruete and others, 2006a
RD-72-30	19.4694	-71.5083	Tonalite	Hornblende	K/Ar	68.7	0.9	Loma de Cabrear batholith. About 9 km west of Almacigos on road from Santiago Rodriguez to Santiago de la Cruz. Equigranular mafic tonalite with 13% quartz, 38% plagioclase, and 48% hornblende.	Kesler and others, 1991
MJ9141-5874I	19.5185	-71.514	Tonalite	Hornblende	40/39 Plateau	83.5	0.8	Hornblende tonalite dike (Nb = 11 ppm) that intrudes and crosscuts Duarte Complex in Dajabón area. Very probably, dike is apophysis of Loma de Cabrera batholith. For 6 steps (4 to 9), obtained plateau age from hornblende is 83.5±0.8 Ma for 94.2% of ^{39}Ar released. Inverse isochron age is 85.2±2.5 Ma.	Escuder Viruete and others, 2006a, 2007a
PU9024	19.537	-71.588	Rhyolite	Zircon	TIMS Multigrain	91.8	2.3	Porphyritic rhyolite, Tireo Formation. Four concordant zircon populations.	Escuder Viruete and others, 2007a
25323	19.5382	-70.2458	Eclogite	Zircon	TIMS Multigrain	139.1	3.6	Rio San Juan Complex: Rb/Sr isochron on whole rock, garnet and phengite. Lu/Hf isochron on garnet, omphacite, amphibole, epidote, and whole rock. Approximate location. Two fractions of zircon dated yielding dates that are considered unreliable.	Krebs and others, 2008; Escuder Viruete and others, 2013
				Zircon	TIMS Multigrain	137.8	1.9		
				Phengite	40/39 Plateau	73.42	0.74		
				Isochron	Rb/Sr	74.7	0.5		
				Isochron	Lu/Hf	103.6	2.7		
PU9252	19.5422	-71.6346	Rhyodacite	Hornblende	40/39 Plateau	91.8	2.3	Unfoliated rhyodacitic flow (adakite), spatially equivalent with rhyolite sample dated by U/Pb methods. For four steps (5 to 8), plateau age from hornblende is 91.8±2.3 Ma, representing 73.5% of ^{39}Ar released. Inverse isochron age on 8 points is 92.2±10 Ma.	Escuder Viruete and others, 2007a
25243	19.5505	-70.203	Blueschist	Phengite	40/39 Plateau	73.85	0.79	Omphacite blueschist. Rio San Juan Complex, whole rock, phengite, and amphibole. Approximate location.	Krebs and others, 2008
				Isochron	Rb/Sr	80.3	1.1		
25356	19.596	-70.1587	Blueschist	Isochron	Rb/Sr	62.1	1.4	Jadeite blueschist Rio San Juan Complex, whole rock, garnet, and phengite. Approximate location.	Krebs and others, 2008
PD04-114-175	19.6113	-70.0842	Limestone	Alunite	40/39 Plateau	46.1	0.3	Pueblo Viejo; Moore deposit; Hatillo limestone. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Sample taken from a deep northwest-southeast trending core zone of alteration that connects the Moore and Monte Negro deposits.	Arribas and others, 2011
6074I-JR9071	19.6221	-70.6909	Andesite	Hornblende	40/39 Plateau	46.30	2.40	Pedro Garcia basement complex, andesite.	Hernaiz Huerta and others, 2012
6074I-JR9073	19.6239	-70.6907	Gabbro	Hornblende	40/39 Plateau	49.8	2.9	Pedro Garcia basement complex, gabbro-diorite. Sample location is possibly slightly too far to the northwest, depending on the apparent geology.	Hernaiz Huerta and others, 2012
6074I-JR9229C	19.6247	-70.6908	Tonalite	Hornblende	40/39 Plateau	47.26	0.59	Pedro Garcia basement complex, tonalite. Sample location is possibly slightly too far to the northwest, depending on the apparent geology.	Hernaiz Huerta and others, 2012
PD04-24A-102.1	19.645	-70.0903	Limestone	Alunite	40/39 Plateau	74.2	0.9	Pueblo Viejo; Monte Negro deposit; Hatillo limestone. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Gold average is low (0.25–2 g/t). Samples PD04-24A-102.1 and PD04-24A-109.7 taken from same drill hole found along a deep northwest-southeast trending core zone of alteration that connects Moore and Monte Negro deposits.	Arribas and others, 2011

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Dominican Republic—Continued									
PD04-24A-109.7	19.645	-70.0903	Limestone	Alunite	40/39 Total fusion	78.8	0.3	Pueblo Viejo; Monte Negro deposit; Hatillo limestone. Latitude and longitude are approximations using map provided and georeferenced using Google Earth. Gold average is low (0.25–2 g/t). Samples PD04-24A-102.1 and PD04-24A-109.7 taken from same drill hole found along a deep northwest-southeast trending core zone of alteration that connects Moore and Monte Negro deposits. Sample appears to show range of ages, from ~65 to ~90 Ma.	Arribas and others, 2011
6075III-HH9128	19.6915	-70.9747	Basalt	Hornblende	40/39 Plateau	49.7	0.5	Palma Picada basement complex. Porphyritic basalt. Location possibly too far north depending on quality of geologic mapping.	Hernaiz Huerta and others, 2012
6075III-HH9126	19.7069	-70.975	Basalt	Hornblende	40/39 Plateau	50.44	0.85	Palma Picada basement complex. Porphyritic basalt. Location possibly too far north depending on quality of geologic mapping.	Hernaiz Huerta and others, 2012
5975II-FP9091	19.7489	-71.1616	Basalt	Whole rock	40/39 Plateau	64.26	0.96	Palma Picada basement complex. Spillitized, brecciated basalt. Location possibly too far south depending on quality of geologic mapping.	Hernaiz Huerta and others, 2012
6075III-HH9133	19.8024	-70.7755	Granite	Biotite	40/39 Plateau	95.4	1.2	Puerto Plata basement complex, intrusion in Los Canos Formation; leucogranite.	Hernaiz Huerta and others, 2012
6075III-HH9124	19.8121	-70.8061	Troctolite	Hornblende	40/39 Plateau	55.0	8.0	Puerto Plata basement complex gabbro and gabbronorite; banded troctolite.	Hernaiz Huerta and others, 2012
5975III-PU9697	19.8223	-71.3151	Rhyolite	Xenocrysts	U/Pb	122.7	0.3	El Cacheal basement complex. Location coordinates (19.8223°, 71.3151°) in paper are in error, corrected here based on geology and map in paper.	Hernaiz Huerta and others, 2012
5975III-PU9697	19.8223	-71.3151	Rhyolite	Zircon	U/Pb	90.90	0.50	El Cacheal basement complex. Location coordinates (19.8223°, 71.3151°) in paper are in error, corrected here based on geology and map in paper.	Hernaiz Huerta and others, 2012
6075II-JM9271	19.8352	-70.7719	Andesite	Hornblende	40/39 Plateau	81.60	2.70	Puerto Plata basement Los Canos Formation; porphyritic andesite.	Hernaiz Huerta and others, 2012
6075IV-JE9119B	19.8364	-70.7593	Gabbro	Zircon	U/Pb	126.1	0.3	Minimum age, based on single concordant fraction. Puerto Plata basement complex gabbro and gabbronorite unit.	Hernaiz Huerta and others, 2012
6075II-JM9272B	19.8365	-70.7715	Andesite	Hornblende	40/39 Isochron	81.90	5.80	Puerto Plata basement Los Canos Formation; porphyritic andesite. Normal isochron 81.90±5.80 Ma, inverse isochron 91±11 Ma.	Hernaiz Huerta and others, 2012
DRN-12	21.8658	-79.5247	Blueschist	White mica	K/Ar	31.7	3	All locations from source are approximate generalities. Garnet-glaucophane rock, La Chiva complex of Samana, Samana Peninsula, Haiti. Reported age was 32 Ma, recalculated here based on reported analytical data. Description says Haiti but peninsula mentioned is in Dominican Republic.	Somin and others, 1992
Haiti									
HA77-28	18.4000	-72.4250	Basalt	Whole rock	40/39 Plateau	88.7	1.5	Dumisseau Formation, approximate location. Isochron age 96.2±5.6 Ma.	Sinton and others, 1998
HA76-165	18.4000	-72.4250	Basalt	Whole rock	40/39 Plateau	90.6	1.1	Dumisseau Formation, approximate location. Isochron age 92.2±1.1 Ma.	Sinton and others, 1998
HA74-24	18.0000	-72.4250	Basalt	Whole rock	40/39 Plateau	91.2	0.6	Dumisseau Formation, approximate location. Isochron age 91.1±1.3 Ma.	Sinton and others, 1998
HA76-120	18.4000	-72.4250	Basalt	Whole rock	40/39 Plateau	89.2	1.5	Dumisseau Formation, approximate location. Isochron age 90.0±4.9 Ma.	Sinton and others, 1998
H2	18.8127	-72.0103	Nephelinite	Unknown, whole rock?	K/Ar	1.8	0.9	1.01% K_2O; 5.3% radiogenic Ar. Thomazeau volcanic center; approximate location.	Wadge and Wooden, 1982
LM01	19.2547	-71.7583	Rhyolite	Zircon	U/Pb	84.3	1.4	Average using 34 of 38 grains. Location is approximate, based on map in thesis, estimated UTM (zone 18) coordinates for drill hole LMDH07 collar were 2131300.0 Northing and 210050 Easting. Sample collected at depth between 111.50 and 130.05 m in drill hole.	Pauca, 2014
MD-1333	19.5883	-71.9792	Quartz vein	Molybdenite	Re-Os	93.31	0.13	DDH-002, 194.6 m. Location approximate.	Nelson and others, 2015
Terre-Neuve	19.6067	-72.7833	Quartz monzonite	Biotite	K/Ar	67.9	1.3	Approximate location, age recalculated using constant of Steiger and Jager (1977).	Kesler and Fleck, 1967; Kesler, 1971
HH9124	19.8267	-70.795	Troctolite	Hornblende	40/39 Plateau	55.0	8.1	Plateau age is 55.0±8.1 Ma (MSWD = 0.1) for 6 steps (2 to 7) and 69.9% of ^{39}Ar released. Inverse isochron 55.5±9.6 Ma. Coarse-grained troctolite, from IM3 unit of Imbert Formation, collected in Arroyo Seco outcrop at Cerro de Gran Diablo. It contains igneous plagioclase and olivine, with minor orthopyroxene and clinopyroxene, and secondary hornblende.	Escuder Viruete and others, 2016

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Haiti—Continued									
6075II-JM9112	19.8333	-70.7425	Leucogabbro-norite	Plagioclase	40/39 Plateau	35.1	8.1	Plateau age is 35.1±8.1 Ma (MSWD = 4.6) for 7 steps (3 to 10) and 96.0% of ^{39}Ar released. Inverse isochron 34±13 Ma. Coarse-grained leucogabbro-norite, collected in quarry from Imbert Formation on road to Puerto Plata. It contains plagioclase, clinopyroxene and orthopyroxene, with minor olivine and spinel. Reported as sample 6075II-JM9112 by Hernaiz Huerta and others (2012) and slightly different age of 35.8. Location from Hernaiz Huerta and others (2012).	Hernaiz Huerta and others, 2012; Escuder Viruete and others, 2016
10JE54	19.835	-70.744	Leucogabbro	Plagioclase	40/39 Plateau	44.0	3.1	Plateau age is 44.03.1 Ma (MSWD = 1.2) for 7 steps (1–7) and 100.0% of ^{39}Ar released. Inverse isochron was 42.8±5.3 Ma. Coarse-grained leucogabbro, collected in quarry from Imbert Formation on road to Puerto Plata. Microscopically, it displays layered adcumulate igneous texture, defined by variations in modal contents of plagioclase and clinopyroxene, with minor orthopyroxene, olivine, and spinel.	Escuder Viruete and others, 2016
Jamaica									
AHBD07	18.0082	-76.6087	Granite	Plagioclase	40/39 Total fusion	25.2	0.3	Cedar Valley, microgranite dike. Porphyritic rock with plagioclase feldspar, K-feldspar, hornblende, and quartz phenocrysts. Groundmass is composed of feldspar, amphibole, quartz, and opaque minerals. Approximate location.	Hastie, 2007
AHBD10C	17.9483	-76.3320	Basalt	Groundmass	40/39 Total fusion	150.5	1.9	Highly altered lava flow. Rock is aphyric and is composed of plagioclase feldspar, clinopyroxene, and opaque minerals. Rock is altered, and substantial serpentine and clay minerals are present. Hastie (2007) used an age of 88.5 Ma in his dissertation for this rock. Approximate location.	Hastie, 2007
AHBD10D					40/39 Total fusion	113.8	1.3		
SNC4	17.93	-76.5383	Felsite	Whole rock	K/Ar	38.3	1.1	Ness Castle felsite. Age thought to be too young. Felsite (dacite) cutting serpentinite along road southeast Ness Castle. Approximate location. Date recalculated using constants of Steiger and Jager (1977).	Lewis and others, 1973
AHWG03A	17.9513	-76.6551	Rhyodacite		40/39 Plateau	52.98	0.52	Adakitic rhyodacite, Bito Quarry. MSWD = 0.47 for 61% ^{39}Ar. Average age of samples AHWG03A and AHWG03B is 52.74±0.34 Ma, MSWD = 1.5. Altered massive lava flow. Rock is porphyritic with phenocrysts of plagioclase feldspar and K-feldspar, which are partially altered to sericite. Groundmass is composed of feldspars, quartz, and opaque minerals. Groundmass has been substantially replaced with sericite and clay minerals.	Hastie and others, 2010
AHWG03B	17.9513	-76.6551	Rhyodacite		40/39 Plateau	52.56	0.44	Adakitic rhyodacite, Bito Quarry. MSWD = 1.09 for 64.7% ^{39}Ar. Average age of samples AHWG03A and AHWG03B is 52.74±0.34 Ma, MSWD = 1.5. Altered massive lava flow. Rock is porphyritic with phenocrysts of plagioclase feldspar and K-feldspar, which are partially altered to sericite. Groundmass is composed of feldspars, quartz, and opaque minerals. Groundmass has been substantially replaced with sericite and clay minerals.	Hastie and others, 2010
67	17.9612	-77.6087	Bauxite	Zircon	Fission-track	36.7	7.4	Graben bauxite, 3 of 6 grains; 45 fossil tracks, 54 induced tracks. Location approximate.	Comer and others, 1980
				Zircon	Fission-track	41.4	5.9	Graben bauxite, 4 of 6 grains; 96 fossil tracks, 102 induced tracks. Location approximate.	
				Zircon	Fission-track	44.5	6.4	Graben bauxite, 5 of 6 grains; 98 fossil tracks, 97 induced tracks. Location approximate.	
				Zircon	Fission-track	45.4	8.1	Graben bauxite, 2 of 6 grains; 64 fossil tracks, 62 induced tracks. Location approximate.	
				Zircon	Fission-track	46.5	2.7	Graben bauxite, composite of 6 grains; 610 fossil tracks, 577 induced tracks. Location approximate.	
				Zircon	Fission-track	51.5	4.5	Graben bauxite, 6 of 6 grains; 287 fossil tracks, 245 induced tracks. Location approximate.	
				Zircon	Fission-track	51.7	17.0	Graben bauxite, 1 of 6 grains; 20 fossil tracks, 17 induced tracks. Location approximate.	
227	17.9883	-77.6667	Schist	Biotite	K/Ar	49.9	1.3	Westphalia Schist, approximate location. Biotite, very low K_2O. Date recalculated using constants of Steiger and Jager (1977).	Lewis and others, 1973
481	17.9883	-77.6667	Schist	Biotite	K/Ar	54.1	1.4	Westphalia Schist, approximate location. Biotite, low K_2O. Biotite and hornblende are discordant. Date recalculated using constants of Steiger and Jager (1977).	Lewis and others, 1973
				Hornblende	K/Ar	78.2	2.1		
71-2	18.0667	-77.15	Hornfels	Biotite	K/Ar	84.6	1.5	Hornfels associated with Ginger Ridge granodiorite. Approximate location. Date recalculated using constants of Steiger and Jager (1977).	Lewis and others, 1973
				Biotite	K/Ar	84.8	1.6		
27	18.0667	-77.1622	Granodiorite	Hornblende	K/Ar	48.2	1.8	Ginger Ridge granodiorite. Approximate location. Date recalculated using constants of Steiger and Jager (1977).	Lewis and others, 1973
				Whole rock	K/Ar	74.3	2.0		
Isochron	18.0667	-77.1622	Granodiorite	Isochron	K/Ar	87	9	Isochron of Ginger Ridge granodiorite and hornfels. Inferred by Lewis and others (1973) to better reflect age of emplacement. Approximate location. Date recalculated using constants of Steiger and Jager (1977). Based on other age determinations, the isochron is probably too old.	Lewis and others, 1973

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Jamaica—Continued									
54	18.0825	-77.514	Bauxite	Zircon	Fission-track	17.2	2.7	Plateau bauxite, 1 of 5 grains; 59 fossil tracks, 150 induced tracks. Location approximate.	Comer and others, 1980
				Zircon	Fission-track	15.1	2.9	Plateau bauxite, 2 of 5 grains; 36 fossil tracks, 105 induced tracks.	
				Zircon	Fission-track	23.9	1.9	Plateau bauxite, 3 of 5 grains; 232 fossil tracks, 427 induced tracks.	
				Zircon	Fission-track	24.9	5.0	Plateau bauxite, 4 of 5 grains; 39 fossil tracks, 69 induced tracks.	
				Zircon	Fission-track	65.9	19.0	Plateau bauxite, 5 of 5 grains; 30 fossil tracks, 20 induced tracks.	
RM51	18.105	-77.36	Basalt	Hornblende	K/Ar	70.3	1.9	Basaltic dike rock. Approximate location. Date recalculated using constants of Steiger and Jager (1977).	Lewis and others, 1973
CHUBB3	18.1097	-76.8995	Granodiorite	Biotite	Rb/Sr	64	5	Zion Hill Bridge. Approximate location determined using map in ArcGIS. K/Ar age recalculated using constants of Steiger and Jager (1977). Sphene determination may represent a Pb-alpha analysis, which are generally discredited.	Chubb and Burke, 1963
				Biotite	K/Ar	66.7	5		
				Sphene	U/Pb	64	5		
AHAR02G	18.1137	-76.8963	Granodiorite	Biotite	40/39 Plateau	64.3	0.53	Fresh intrusion with abundant xenoliths. Coarse-grained rock composed of plagioclase feldspar, K-feldspar, biotite mica, hornblende, quartz, and opaque minerals. Feldspars have been slightly altered to sericite. One sigma error reported.	Hastie, 2007
AHAR02K				Biotite	40/39 Total fusion	63.2	2.5		
AHCI39	18.1264	-77.3868	Basaltic andesite	Plagioclase	40/39 Plateau	80.3	0.5	Altered massive lava flow. Although rock is altered, it appears to be porphyritic. Phenocrysts, composed of plagioclase feldspar are partially altered to chlorite, clay minerals, and sericite. Groundmass is feldspar and opaque minerals, also replaced with clay minerals, chlorite, and sericite. Quartz and chlorite vein seen. Hastie and others (2013) reported 1 sigma error, MSWD = 0.65, 75% ^{39}Ar in plateau.	Hastie, 2007; Hastie and others, 2013
AHCI40	18.12634	-77.3868	Basaltic andesite	Plagioclase	40/39 Plateau	80.1	0.8	No sample description nor location provided; location used here derived from sample AHCI39, which was 10 m south. 1 sigma error, MSWD = 0.83, 100% ^{39}Ar in plateau.	Hastie and others, 2013
CHUBB1	18.1347	-76.8308	Granodiorite	Feldspar	K/Ar	55.4	5	Hall Green locality. Approximate location determined using map in ArcGIS. Ages recalculated using constants of Steiger and Jager (1977).	Chubb and Burke, 1963
AHAR14	18.1599	-76.8859	Andesite	Plagioclase	40/39 Plateau	68.9	0.42	Altered massive lava flow. Rock is porphyritic with phenocrysts of plagioclase feldspar and amphibole. Groundmass is composed of plagioclase, amphibole, and opaque minerals. Rock is moderately altered with clay minerals, sericite, and Fe-oxyhydroxide staining.	Hastie, 2007
AHAR16	18.1967	-76.8933	Andesite	Whole rock	Not reported	70.5	--	Altered massive lava flow. Method and error not reported.	Hastie, 2007
CHUBB2	18.2127	-76.9258	Granodiorite	Feldspar	K/Ar	74.5	5	Troja locality. Approximate location determined using map in ArcGIS. Ages recalculated using constants of Steiger and Jager (1977).	Chubb and Burke, 1963
Low	18.2167	-76.5854	Basalt	Whole rock	K/Ar	9.5	0.5	Alkaline basalt from uplifted submarine volcano at Low Layton on northeast coast of Jamaica. Approximate location.	Wadge, 1982; Wadge and Wooden, 1982
A-1	18.2288	-77.0993	Bauxite	Zircon	Fission-track	10.7	2.7	Plateau bauxite, 3 of 6 grains; 19 fossil tracks, 78 induced tracks. Location approximate.	Comer and others, 1980
				Zircon	Fission-track	13.1	2.3	Plateau bauxite, 6 of 6 grains; 43 fossil tracks, 145 induced tracks.	
				Zircon	Fission-track	24.3	2.5	Plateau bauxite, 1 of 6 grains; 141 fossil tracks, 256 induced tracks.	
				Zircon	Fission-track	49.4	9.1	Plateau bauxite, 2 of 6 grains; 63 fossil tracks, 56 induced tracks.	
				Zircon	Fission-track	55.9	8.7	Plateau bauxite, 4 of 6 grains; 94 fossil tracks, 74 induced tracks.	
R-8	18.3397	-77.1382	Terra rossa	Zircon	Fission-track	36.2	8.0	Terra rossa, 1 of 6 grains; 37 fossil tracks, 45 induced tracks. Location approximate.	Comer and others, 1980
				Zircon	Fission-track	42.4	4.1	Terra rossa, 6 of 6 grains; 210 fossil tracks, 218 induced tracks.	
				Zircon	Fission-track	46.7	16.6	Terra rossa, 3 of 6 grains; 17 fossil tracks, 16 induced tracks.	
				Zircon	Fission-track	49.4	9.7	Terra rossa, 5 of 6 grains; 55 fossil tracks, 49 induced tracks.	
				Zircon	Fission-track	73.2	8.3	Terra rossa, 4 of 6 grains; 205 fossil tracks, 123 induced tracks.	
				Zircon	Fission-track	76.3	20.0	Terra rossa, 2 of 6 grains; 40 fossil tracks, 23 induced tracks.	
K-4	18.377	-77.4297	Bauxite	Zircon	Fission-track	19.6	6.8	Plateau bauxite, 1 of 6 grains; 12 fossil tracks, 27 induced tracks. Location approximate.	Comer and others, 1980
				Zircon	Fission-track	20.5	7.0	Plateau bauxite, 4 of 6 grains; 13 fossil tracks, 28 induced tracks.	
				Zircon	Fission-track	27.0	10.0	Plateau bauxite, 5 of 6 grains; 11 fossil tracks, 18 induced tracks.	
				Zircon	Fission-track	37.0	6.4	Plateau bauxite, 2 of 6 grains; 62 fossil tracks, 74 induced tracks.	

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Jamaica—Continued									
72.3	18.4707	-77.4922	Bentonite	Biotite	K/Ar	8.6	0.6	Hydrobiotite from bentonite. Mean of 2 determinations. Location approximate.	Comer and others, 1980
				Zircon	Fission-track	6.5	1.0	Zircon, 1 of 9 grains, 46 fossil tracks, 310 induced tracks.	
				Zircon	Fission-track	9.3	0.8	Zircon, 2 of 9 grains, 150 fossil tracks, 712 induced tracks.	
				Zircon	Fission-track	9.8	1.4	Zircon, 3 of 9 grains, 62 fossil tracks, 279 induced tracks.	
				Zircon	Fission-track	10.2	1.1	Zircon, 4 of 9 grains, 101 fossil tracks, 437 induced tracks.	
				Zircon	Fission-track	6.6	0.9	Zircon, 5 of 9 grains, 57 fossil tracks, 380 induced tracks.	
				Zircon	Fission-track	10.6	2.2	Zircon, 6 of 9 grains, 29 fossil tracks, 121 induced tracks.	
				Zircon	Fission-track	9.4	1.5	Zircon, 7 of 9 grains, 45 fossil tracks, 221 induced tracks.	
				Zircon	Fission-track	6.8	1.1	Zircon, 8 of 9 grains, 41 fossil tracks, 265 induced tracks.	
				Zircon	Fission-track	8.5	1.2	Zircon, 9 of 9 grains, 63 fossil tracks, 328 induced tracks.	
				Zircon	Fission-track	8.6	0.4	Zircon, composite of 9 grains, 594 fossil tracks, 3053 induced tracks.	
Puerto Rico									
43-2	18.0014	-67.0886	Amphibolite	Hornblende	K/Ar	129	3	Amphibolite, so-called Bermeja Complex in Sierra Bermeja; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
43-1	18.0031	-67.0883	Diorite	Hornblende	K/Ar	88.2	2.1	Diorite porphyry, so-called Bermeja Complex in Sierra Bermeja; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
53-1b	18.0411	-65.8539	Diorite	Hornblende	K/Ar	80.2	1.6	Diorite from San Lorenzo batholith; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
53-1a	18.0425	-65.8553	Diorite	Hornblende	K/Ar	79.7	1.6	Diorite from San Lorenzo batholith; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
51-4	18.0472	-66.0992	Diorite	Actinolite	K/Ar	102.5	16	Diorite; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
52-1	18.0514	-65.9889	Quartz diorite	Hornblende	K/Ar	111.4	9	Quartz diorite; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
53-2	18.0983	-65.8394	Quartz monzonite	Biotite	K/Ar	67.2	1.6	Quartz monzonite from San Lorenzo batholith; date recalculated using constants of Steiger and Jager (1977). Rogers (1977) reports this as Granodiorite of plutonic complex of Punta Guayanes.	Cox and others, 1977
				Hornblende	K/Ar	67.8	2.9		
50-4	18.1103	-66.2458	Quartz diorite	Hornblende	K/Ar	48.3	1.0	Quartz diorite from Cuyon stock; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Chlorite-biotite	K/Ar	49.4	1.3		
39-1	18.1258	-65.8633	Granodiorite	Biotite	K/Ar	67.3	1.6	Granodiorite from San Lorenzo batholith. Biotite age probably lowered by thermal effects of a younger intrusive; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Hornblende	K/Ar	76.0	1.5		
38-4	18.1522	-65.9806	Quartz monzonite	Biotite	K/Ar	74.4	2.0	Quartz monzonite from San Lorenzo batholith; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Hornblende	K/Ar	75.2	1.5		
71-203	18.1597	-66.71805	Quartz diorite	Hornblende	K/Ar	41.1	1.4	Eocene igneous rocks with unaltered hornblende. Hornblende quartz diorite.	Barabas, 1982
33-16	18.1667	-66.6061	Quartz diorite	Hornblende	K/Ar	76.1	1.5	Quartz diorite; date recalculated using constants of Steiger and Jager (1977). Two splits, yielding 74.6 and 77.6 Ma.	Cox and others, 1977
MN-217-C-1	18.1667	-66.9542	Amphibolite	Hornblende	K/Ar	114.8	15	Amphibolite enclosed by serpentinite. Hornblende concentrate contains about 15% hydro-grossular garnet; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
71-197A1	18.1696	-66.69805	Breccia	Hornblende	K/Ar	45.1	4.1	Eocene igneous rocks with unaltered hornblende. Andesitic volcanic breccia.	Barabas, 1982
71-197A2	18.1696	-66.69805	Breccia	Hornblende	K/Ar	37.0	2.9	Eocene igneous rocks with unaltered hornblende. Andesitic volcanic breccia.	Barabas, 1982
71-197A3	18.1696	-66.69805	Breccia	Whole rock	K/Ar	33.4	3.1	Eocene igneous rocks with unaltered hornblende. Andesitic volcanic breccia.	Barabas, 1982
RV-122	18.1875	-66.6797	Quartz diorite	Whole rock	K/Ar	40.1	0.8	Hydrothermally altered rocks. Cala Abajo ore zone. Drill hole, 114 to 115 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
RV-122	18.1878	-66.6794	Quartz diorite	Whole rock	K/Ar	39.1	0.8	Hydrothermally altered rocks. Cala Abajo ore zone. Drill hole 139 to 143 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
				Whole rock	K/Ar	42.6	0.9		
				Whole rock	K/Ar	43.7	0.9		
32-5	18.1917	-66.6786	Quartz diorite	Hornblende	K/Ar	42.3	1.9	Quartz diorite from stream bed at Rio Vivi deposit; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
71-128	18.1919	-66.6783	Quartz diorite	Hornblende	K/Ar	42.2	1.9	Eocene igneous rocks with unaltered hornblende. Hornblende quartz diorite.	Barabas, 1982
33-25	18.1942	-66.5236	Quartz diorite	Hornblende	K/Ar	68.1	1.3	Quartz diorite; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Puerto Rico—Continued									
71-42	18.195	-66.6792	Basalt	Hornblende	K/Ar	42.8	5.9	Hydrothermally altered rock. Altered pyroxene basalt.	Barabas, 1982
RV-17	18.1956	-66.6847	Quartz diorite	Whole rock	K/Ar	35.0	0.8	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 212 to 213 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
RV-17	18.1956	-66.6847	Quartz diorite	Whole rock	K/Ar	35.9	1.1	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 314 to 316 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
DDW-1	18.1958	-66.6861	Quartz diorite	Biotite	K/Ar	42.0	0.9	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 1.5 to 5 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
DDW-1A	18.1958	-66.6861	Quartz diorite	Whole rock	K/Ar	41.5	0.8	Hydrothermally altered rocks. Piedra Hueca ore zone. Quartz diorite-tonalite porphyry.	Barabas, 1982
DDW-1B	18.1961	-66.6694	Quartz diorite	Whole rock	K/Ar	41.5	0.8	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 24.8 to 28.1 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
RV-17	18.1964	-66.6847	Quartz diorite	Whole rock	K/Ar	33.9	.7	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 212 to 213 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
DDW-1E	18.1964	-66.685	Volcanic rock	Biotite	K/Ar	40.6	0.8	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 88 to 90 m depth. Mafic volcanic inclusion.	Barabas, 1982
				Whole rock	K/Ar	40.4	0.8		
DDW-1F	18.1964	-66.6861	Quartz diorite	Biotite	K/Ar	40.0	0.8	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 85 to 90 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
DDW-1F	18.1964	-66.6861	Quartz diorite	Biotite	K/Ar	41.1	0.8	Hydrothermally altered rocks. Piedra Hueca ore zone. Drill hole, 85 to 90 m depth. Quartz diorite-tonalite porphyry.	Barabas, 1982
				Whole rock	K/Ar	43.1	1.1		
32-87	18.1967	-66.6786	Quartz diorite	Whole rock	K/Ar	41.8	0.8	Hydrothermally altered rocks. Sapo Alegre zone. Quartz diorite-tonalite porphyry.	Barabas, 1982
				Whole rock	K/Ar	42.1	0.8		
DDE-1Ha	18.1971	-66.685	Tonalite	Alunite	K/Ar	42.6	2.1	Eocene igneous rocks with unaltered hornblende. Drill hole, 157 to 161 m depth.	Barabas, 1982
DDE-1Hb				Biotite	K/Ar	40.1	1.0		
RV-104a	18.1981	-66.685	Tonalite	Hornblende	K/Ar	44.4	2.6	Eocene igneous rocks with unaltered hornblende. Drill hole, 45 to 48 m depth.	Barabas, 1982
RV-104b				Biotite	K/Ar	40.4	0.8		
RV-102a	18.1997	-66.6833	Tonalite	Hornblende	K/Ar	44.2	1.3	Eocene igneous rocks with unaltered hornblende. Drill hole, 167 to 172 m depth.	Barabas, 1982
RV-102b				Biotite	K/Ar	43.6	0.9		
RV-102c				Plagioclase	K/Ar	40.7	0.8		
RV-102				Hornblende	K/Ar	42.1	2.5	Eocene igneous rocks with unaltered hornblende. Drill hole 156 to 164 m depth.	Barabas, 1982
33-22	18.2033	-66.5528	Tonalite	Hornblende	K/Ar	67.9	1.8	Latest Cretaceous to Paleocene plutonic rocks.	Barabas, 1982
33-17	18.2036	-66.6236	Quartz diorite	Hornblende	K/Ar	68.8	1.4	Quartz diorite; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
33-24	18.2036	-66.6236	Quartz diorite	Hornblende	K/Ar	70.6	3.3	Quartz diorite; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Biotite	K/Ar	72.3	1.7		
38-5	18.2064	-65.8781	Quartz monzonite	Chlorite-biotite	K/Ar	63.2	1.5	Quartz monzonite from San Lorenzo batholith. Chlorite-biotite age appears to be too young; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Hornblende	K/Ar	72.2	3.2		
71-59a	18.2097	-66.6775	Tonalite	Hornblende	K/Ar	67.0	2.2	Plutonic rocks with latest Cretaceous hornblende ages and Eocene biotite ages. Tonalite to granodiorite.	Barabas, 1982
71-59b				Biotite	K/Ar	47.8	1.0		
32-129	18.2103	-66.6781	Diorite	Biotite	K/Ar	49.2	1.2	Altered and fractured diorite collected in stream bed at Rio Vivi deposit. Biotite age was lowered by thermal effects of Eocene intrusive; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Hornblende	K/Ar	66.8	1.3		
VC-2a	18.2106	-66.6708	Tonalite	Biotite	K/Ar	46.2	1.5	Eocene igneous rocks with unaltered hornblende. Drill hole, 185 to 190 m depth.	Barabas, 1982
VC-2b				Biotite	K/Ar	43.1	0.9		
VC-2c				Biotite	K/Ar	44.6	1.7		
VC-2d				Plagioclase	K/Ar	41.8	1.3		
71-151	18.2114	-66.6994	Andesite(?)	Biotite	K/Ar	46.8	1.2	Hydrothermally altered rock.	Barabas, 1982
DS-34	18.2131	-66.7019	Granodiorite	Hornblende	K/Ar	41.4	2.0	Eocene igneous rocks with unaltered hornblende. Drill hole, 135 to 150 m depth. Granodiorite porphyry.	Barabas, 1982

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
Puerto Rico—Continued									
71-46a	18.2186	-66.6736	Granodiorite	Hornblende	K/Ar	61.9	2.3	Plutonic rocks with latest Cretaceous hornblende ages and Eocene biotite ages.	Barabas, 1982
				Biotite	K/Ar	45.7	0.9		
71-161	18.2203	-66.7078	Tonalite	Hornblende	K/Ar	37.7	3.1	Eocene igneous rocks with unaltered hornblende. Tonalite porphyry.	Barabas, 1982
71-159	18.2258	-66.711	Tonalite	Hornblende	K/Ar	57.8	1.5	Latest Cretaceous to Paleocene plutonic rocks.	Barabas, 1982
32-12	18.235	-66.7219	Quartz diorite	Hornblende	K/Ar	38.8	1.5	Quartz diorite from stream bed of Rio Grande de Arecibo; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
31-1	18.2397	-66.8572	Porphyry	Hornblende	K/Ar	42.8	5.6	Hornblende porphyry from Torrecilla stock; date recalculated using constants of Steiger and Jager (1977). Separate 60–100 mesh.	Cox and others, 1977; Barabas, 1982
						45.3	4.0	Separate 100–150 mesh.	
71-49	18.2447	-66.7947	Andesite	Hornblende	K/Ar	40.6	0.9	Eocene igneous rocks with unaltered hornblende. Helecho ore zone. Location in error in source, minutes transposed in latitude?	Barabas, 1982
71-166	18.245	-66.7225	Granite	Hornblende	K/Ar	66.3	1.4	Latest Cretaceous to Paleocene plutonic rocks.	Barabas, 1982
71-58a	18.2456	-66.7986	Tonalite	Hornblende	K/Ar	34.7	3.3	Eocene igneous rocks with unaltered hornblende. Helecho ore zone. Tonalite porphyry.	Barabas, 1982
71-58b				Hornblende	K/Ar	43.2	4.5		
17-140	18.2556	-66.7925	Gangue	Whole rock	K/Ar	44.5	1.3	Quartz-sericite whole rock date. Gangue from hydrothermally altered porphyry at Tanama in core from 811-ft interval, drill hole no. T116 (inclined at 45°); date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
17-141	18.2556	-66.7925	Gangue	Whole rock	K/Ar	42.4	1.9	Quartz-sericite whole rock date. Gangue from hydrothermally altered porphyry at Tanama in a core from 419-ft interval, drill hole no. T116 (inclined at 45°); date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
71-75	18.2788	-66.6544	Granodiorite	Hornblende	K/Ar	66.1	4.1	Latest Cretaceous to Paleocene plutonic rocks.	Barabas, 1982
71-76	18.2792	-66.655	Granodiorite	Alunite	K/Ar	61.1	3.2	Latest Cretaceous to Paleocene plutonic rocks.	Barabas, 1982
18-5	18.2797	-66.6569	Quartz monzonite	Hornblende	K/Ar	70.0	2.1	Quartz monzonite from Utuado batholith; collected below dam face at Lago Caonillas; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
71-74	18.2833	-66.6442	Granodiorite	Hornblende	K/Ar	60.5	2.6	Latest Cretaceous to Paleocene plutonic rocks. Hornblende granodiorite porphyry.	Barabas, 1982
71-154	18.2853	-66.7969	Tonalite	Hornblende	K/Ar	63.3	1.9	Latest Cretaceous to Paleocene plutonic rocks.	Barabas, 1982
22-1	18.2897	-66.1408	Altered rock	Whole rock	K/Ar	76.8	1.8	Quartz sericite whole rock date. Hydrothermally altered Santa Olaya Lava; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
25-1	18.2931	-65.7944	Diorite	Hornblende	K/Ar	46.8	2.2	Quartz diorite from Rio Blanco stock; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Biotite	K/Ar	47.3	1.1		
71-153	18.2983	-66.8233	Tonalite	Hornblende	K/Ar	68.7	2	Latest Cretaceous to Paleocene plutonic rocks.	Barabas, 1982
20-1	18.3022	-66.4108	Quartz monzonite	Hornblende	K/Ar	90.2	1.8	Quartz monzonite from Morovis stock; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
15-1	18.3369	-67.0469	Andesite	Plagioclase	K/Ar	41.7	0.8	Andesite porphyry which is found as residual boulders in Rio Culebrines Formation; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
				Hornblende	K/Ar	44.2	0.9		
23-8	18.3417	-66.0956	Andesite	Hornblende	K/Ar	61.8	1.2	Guaracanal andesite; date recalculated using constants of Steiger and Jager (1977).	Cox and others, 1977
VB-1	18.3614	-66.6836	Tonalite	Biotite	K/Ar	40.1	1.5	Hydrothermally altered rocks. Drill hole 74.5 to 76 m depth.	Barabas, 1982
U.S. Virgin Islands									
Robin Bay	17.7313	-64.6238	Mafic volcanic rock	Hornblende	K/Ar	75.2	4.3	Pale-brown hornblende, 86% and moderately chloritized hornblende, 14%. Average of 2 determinations. Clast in East End Member of Caledonia Formation	Speed and others, 1979
Grapetree Point	17.7455	-64.5993	Mafic dike	Hornblende	K/Ar	70.1	3.9	Pale-brown hornblende, 99%, and clinopyroxene, 1%. Average of 2 determinations.	Speed and others, 1979
East Point	17.7544	-64.5670	Mafic dike	Hornblende	K/Ar	71.8	2.2	Green-brown hornblende.	Speed and others, 1979
Pull Point	17.7652	-64.6554	Gabbro	Hornblende	K/Ar	66.0	3.2	Deep-brown hornblende, 98%; mica-epidote-prehnite intergrowths, 2%. Average of 2 determinations.	Speed and others, 1979
Green Cay	17.7671	-64.6657	Mafic dike	Hornblende	K/Ar	66.1	1.8	Green-brown hornblende.	Speed and others, 1979
SJ765R1	18.3232	-64.7310	Rhyolite	Whole rock	K/Ar	30.9	0.3	Water Island Formation.	Alminas and others, 1994
SJ048R	18.3275	-64.7658	Rhyolite	Whole rock	K/Ar	50.2	5.7	Water Island Formation.	Alminas and others, 1994

Sample no.	Latitude (decimal degrees)	Longitude (decimal degrees)	Rock type	Mineral	Method	Age (Ma)	Analytical error (Ma)	Comments	Reference(s)
U.S. Virgin Islands—Continued									
ST120R	18.3278	-64.9311	Rhyolite	Whole rock	K/Ar	65.8	2.9	Water Island Formation. Sample collection coordinates revised to place sample onshore.	Alminas and others, 1994
VI 15	18.3306	-64.95805	Granitic rock	Whole rock	K/Ar	40.94	2.05	Haypiece Hill, fine-grained granitic(?) rock of the Virgin Island batholith on Saint Thomas.	Vila and others, 1986
n/a	18.3328	-64.9692	Keratophyre	Whole rock	K/Ar	59.5	5	K/Ar date on celadonitic keratophyre tuff. Location only described as Water Island Formation and age was considered too young, representing argon leakage of later formation of celadonite. Location here is probably incorrect as no location was provided in source. Date recalculated using constants of Steiger and Jager (1977) assuming old constants were in use.	Donnelly, 1966
				Whole rock	K/Ar	63.6	5		
n/a	18.3328	-64.9692	Keratophyre	Whole rock	K/Ar	106	10	K/Ar date on keratophyre. Location described as west shore of Lindbergh Bay in Water Island Formation. Location approximate.	Donnelly, 1966
				Whole rock	K/Ar	110	10		
VI 20	18.3331	-64.9711	Basalt	Whole rock	K/Ar	37.44	1.87	Basalt dike in quarry at Cabritaberg on Saint Thomas.	Vila and others, 1986
ST115R	18.3356	-64.9442	Rhyolite	Whole rock	K/Ar	40.7	1.1	Water Island Formation.	Alminas and others, 1994
VI 38	18.33721 667	-64.9587	Basalt	Whole rock	K/Ar	50.03	2.70	Near Sara Hill, mafic dike containing large amphibole?	Vila and others, 1986
STT 784	18.3372	-64.9608	Basalt	Whole rock	K/Ar	58.83	2.94	Sara Hill, mafic dike containing large amphibole?	Vila and others, 1986
SJ685R	18.3417	-64.7242	Rhyolite	Whole rock	K/Ar	37.7	1.1	Louisenhoj Formation. Thought to provide a minimum age of mineralization.	Alminas and others, 1994
SJ747R1	18.3486	-64.7736	Andesite	Whole rock	K/Ar	42.1	0.6	Louisenhoj Formation	Alminas and others, 1994
SJ748R	18.3586	-64.7014	Andesite	Whole rock	K/Ar	38.6	0.8	Water Island Formation	Alminas and others, 1994
VI-85-193	18.3621	-64.6942	Tonalite	Hornblende	40/39 Plateau	38.81	0.14	Narrows pluton, Please horizontal control marker, eastern Saint John quadrangle. Approximate location, read from map.	Rankin, 2002
VI 39	18.3687	-64.9722	Diorite	Whole rock	K/Ar	59.03	2.95	Small diorite intrusion on northwestern Saint Thomas.	Vila and others, 1986
VI 8	18.3687	-64.9722	Basalt	Whole rock	K/Ar	82.06	4.10	Basaltic dike containing amphibole at Coki Point on Saint Thomas is distinguished by its much older age than mafic dikes taken on the southern coast of Saint Thomas.	Vila and others, 1986
VI-85-222	18.3691	-64.7334	Tonalite	Hornblende	40/39 Plateau	38.67	0.22	Narrows pluton, northeast corner, Mary Point, western Saint John quadrangle. Approximate location, read from map.	Rankin, 2002
VI-85-218	18.3726	-64.7505	Quartz gabbro	Hornblende	40/39 Plateau	39.29	0.22	Narrows pluton, northwestern shore, Mary Point, western Saint John quadrangle. Approximate location, read from map.	Rankin, 2002