

















Digital Supplement - Appendix 2

New zircon U-Pb dating and review of geological and geochronological data with implications for lithostratigraphy and crustal evolution of North Borborema Province, northeastern Brazil

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APPENDIX 2A – Compiled U-Pb zircon ages of orthoderived rocks from the Médio Coreau Domain

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference
Granja Complex	Ultramylonite gneiss	2234±18	LA-ICP-MS	Almeida 2019
Granja Complex	Biotite gneiss migmatite	2253±13	LA-ICP-MS	Almeida 2019
Granja Complex	Biotite gneiss mylonite	2317±17	LA-ICP-MS	Almeida 2019
Granja Complex	Biotite gneiss mylonite	2341±16	LA-ICP-MS	Almeida 2019
Granja Complex	Migmatite	2426±29	LA-ICP-MS	Nogueira Neto 2000
Granja Complex	Migmatite	2478±8	LA-ICP-MS	Almeida 2019
Saquinho Unit	Meta-trachyandesite	1785±1,5	ID-TIMS	Santos 1999
Martinópolis Group	Metarhyolite	777±11	ID-TIMS	Fetter 1999
Jaibas Group	Rhyolite	536±9	LA-ICP-MS	Garcia et al. 2018

APPENDIX 2B – Compiled U-Pb zircon ages of orthoderived rocks from the Ceará Central Domain

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference
Cruzeta Complex	Orthogneiss	2793±6	SHRIMP	Ganade et al. 2017
Cruzeta Complex	Orthogneiss	2698±8	SHRIMP	Ganade et al. 2017
Tróia Complex	Metaryodacite	2156±45	LA-ICP-MS	Souza 2016
Tróia Complex	Chromitite	2036±28	SHRIMP	Costa et al. 2021b
Tróia Complex	Metatonalite	2134±0	SHRIMP	Araujo and Naletto 2014
Tróia Complex	Metaryodacite	2212±13	LA-ICP-MS	Souza 2016
Tróia Complex	Metaryodacite	2234±13	LA-ICP-MS	Souza 2016
Tróia Complex	Metabasic dyke	2194±8	LA-ICP-MS	Souza 2016
Tróia Complex	Metatonalite	2192±11	SHRIMP	Costa 2018
Tróia Complex	Metagranodiorite	2181±4	LA-ICP-MS	Souza 2016
Algodões Complex	Metandesite	2191±10	LA-ICP-MS	Costa et al. 2015b
Algodões Complex	Metaryolite	2131±17	SHRIMP	Castro 2004
Canindé do Ceará Complex	Orthogneiss migmatite	2063±8	LA-ICP-MS	Muniz 2020
Canindé do Ceará Complex	Orthogneiss migmatite	2082±7	LA-ICP-MS	Muniz 2020
Canindé do Ceará Complex	Metatonalite	2140±6	ID-TIMS	Fetter 1999
Canindé do Ceará Complex	Orthogneiss	2159±11	LA-MC-ICP-MS	Hamelak 2015
Canindé do Ceará Complex	Orthogneiss	2139±17	ID-TIMS	Castro 2004
Canindé do Ceará Complex	Granodiorite	2157±26	LA-MC-ICP-MS	Amaral 2010
Canindé do Ceará Complex	Granodiorite	2044±46	LA-MC-ICP-MS	Amaral 2010
Canindé do Ceará Complex	Orthogneiss	2134±16	LA-ICP-MS	Ximenes 2016
Canindé do Ceará Complex	Diatexite	2135±16	LA-ICP-MS	Ximenes 2016
Canindé do Ceará Complex	Leucogranite	2009±4	LA-SF-ICP-MS	Santos et al. 2021c
Itapiúna Suite	Porphyritic metagranite	2070±19	LA-ICP-MS	Garcia et al. 2014
Boa Viagem Complex	Metagabbro	2109±3	LA-ICP-MS	Almeida 2014
Boa Viagem Complex	Orthogneiss	2124±35	SHRIMP	Silva et al. 2014
Boa Viagem Complex	Orthogneiss	2150±29	SHRIMP	Silva et al. 2014
Madalena Suite	Tonalite gneiss	2131±11	ID-TIMS	Martins et al. 2009
Madalena Suite	Orthogneiss	2156±8	ID-TIMS	Castro 2004
Madalena Suite	Orthogneiss	2142±20	ID-TIMS	Castro 2004
Madalena Suite	Tonalite gneiss	2130±0	ID-TIMS	Martins et al. 2009
Madalena Suite	Tonalite gneiss	2131±0	ID-TIMS	Martins et al. 2009
Cipó Unit	Orthogneiss	2190±6	LA-ICP-MS	Costa et al. 2015a
Cipó Unit	Orthogneiss	2180±15	LA-ICP-MS	Costa et al. 2015a
Serra da Palha Body	Orthogneiss	2150±16	LA-ICP-MS	Costa et al. 2015a
Bananeira Unit	Metamonzonite	2092±12	SHRIMP	Costa et al. 2018
Bananeira Unit	Metagranite	2068±5	LA-ICP-MS	Costa et al. 2018
Lagoa Caiçara Unit	Tonalitic metatexite	650±5	SHRIMP	Araujo et al. 2014
Lagoa Caiçara Unit	Granodiorite metatexite	833±6	SHRIMP	Araujo et al. 2014
Lagoa Caiçara Unit	Orthogneiss	627±5	SHRIMP	Araujo et al. 2014
Lagoa Caiçara Unit	Orthogneiss	632±5	SHRIMP	Araujo et al. 2014
Lagoa Caiçara Unit	Granodiorite metatexite	892±8	SHRIMP	Araujo et al. 2014
Lagoa Caiçara Unit	Diatexite	620±5	SHRIMP	Araujo et al. 2014
Ceará Group	Metarhyolite	772±31	ID-TIMS	Fetter 1999
Ceará Group	Metarhyolite	770±0	ID-TIMS	Castro 2004
Ceará Group	Amfibolite	749±5	SHRIMP	Arthaud et al. 2015
Morro dos Torrões Unit	Metarhyolite	610±10	LA-ICP-MS	Costa 2017

APPENDIX 2B – Compiled U-Pb zircon ages of orthoderived rocks from the Ceará Central Domain (continued)

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference
Tamboril-Santa Quitéria Complex	Metatonalite	618±23	LA-ICP-MS	Costa 2017
Tamboril-Santa Quitéria Complex	Tonalite orthogneiss	628±5	LA-ICP-MS	Cavalcanti 2015
Tamboril-Santa Quitéria Complex	Tonalitic metatexite	646±5	SHRIMP	Araujo et al. 2014
Tamboril-Santa Quitéria Complex	Granodiorite (Schollen)	663±7	SHRIMP	Araujo et al. 2014
Tamboril-Santa Quitéria Complex	Porphyritic monzogranite	638±5	SHRIMP	Araujo et al. 2014
Tamboril-Santa Quitéria Complex	Quartz diorite	648±4	SHRIMP	Araujo et al. 2014
Tamboril-Santa Quitéria Complex	Monzogranite	634±10	LA-ICP-MS	Costa 2017
Tamboril-Santa Quitéria Complex	Metatexite	619±8	ID-TIMS	Castro 2004
Tamboril-Santa Quitéria Complex	Diatexite	611±2	ID-TIMS	Castro 2004
Tamboril-Santa Quitéria Complex	Diatexite	618±11	ID-TIMS	Castro 2004
Tamboril-Santa Quitéria Complex	Metagabbro	628±1	ID-TIMS	Teixeira 2005
Tamboril-Santa Quitéria Complex	Diatexite	658±6	ID-TIMS	Teixeira 2005
Tamboril-Santa Quitéria Complex	Syenogranite	638±5	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Porphyritic syenogranite	622±5	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Granite	644±5	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Porphyritic monzogranite	674±4	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Porphyritic monzogranite	654±26	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Monzogranite	626±2	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Migmatite gneiss	628±4	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Augen gneiss	624±4	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Granodiorite metatexite	631±12	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Granodiorite	610±7	LA-ICP-MS	Pitombeira et al. 2021
Tamboril-Santa Quitéria Complex	Granite	654±0	LA-ICP-MS	Pitombeira et al. 2021
Rio Jucá Group	Andesite-dacite	548±6	LA-ICP-MS	Machado 2006

APPENDIX 2C – Compiled U-Pb zircon ages of orthoderived rocks from the Jaguaribeano Domain

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference
Jaguaretama Complex	Metatexite	2169±17	LA-MC-ICP-MS	Almeida et al. 2014
Jaguaretama Complex	Metatonalite	2187±6	SHRIMP	Silva et al. 1997
Jaguaretama Complex	Amfibolite	2200±9	LA-MC-ICP-MS	Almeida et al. 2014
Jaguaretama Complex	Migmatite	2182±17	LA-MC-ICP-MS	Almeida et al. 2014
Jaguaretama Complex	Orthogneiss	2193±16	LA-MC-ICP-MS	Sá et al. 2014
São Gonçalo Complex	Orthogneiss	2106±16	LA-ICP-MS	Gomes et al. 2021
São Gonçalo Complex	Orthogneiss	2152±6	SHRIMP	Gomes et al. 2021
Orós Group	Rhyolite	1790±9	ID-TIMS	Sá 1991
São José Group	Metarhyolite	1783±7	ID-TIMS	Magini 2001
São José Group	Metadacite	1757±5	ID-TIMS	Magini 2001
Serra do Deserto Suite	Augen gneiss	1793±9	SHRIMP	Calado 2017
Serra do Deserto Suite	Augen gneiss	1796±8	LA-MC-ICP-MS	Almeida et al. 2014
Serra do Deserto Suite	Augen gneiss	1773±24	SHRIMP	Pinéo 2017
Serra do Deserto Suite	Augen gneiss	1777±8	LA-MC-ICP-MS	Sá et al. 2014
Ceará Group	Felsic metavolcanic	652±3	SHRIMP	Gomes et al. 2021
Tamboril-Santa Quitéria Complex	Tonalite orthogneiss	624±19	LA-ICP-MS	Naleto and Araujo 2018
Tamboril-Santa Quitéria Complex	Metagranodiorite	624±9	SHRIMP	Silva et al. 2002

APPENDIX 2D – Compiled U-Pb zircon ages of orthoderived rocks from the Rio Piranhas-Seridó Domain

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference
Amarante Complex	Serpentinite	3747±12	SHRIMP	Santos et al. 2020
Amarante Complex	Pyroxenite	3528±66	LA-ICP-MS	Cavalcante et al. 2019
Amarante Complex	Serpentinite	3526±5	SHRIMP	Santos et al. 2020
Amarante Complex	Orthogneiss	3508±29	LA-ICP-MS	Ruiz et al. 2019
Amarante Complex	Pyroxenite	3506±29	LA-ICP-MS	Ruiz et al. 2019
Amarante Complex	Syenogranite orthogneiss	3348±23	LA-ICP-MS	Oliveira et al. 2013
Granjeiro Complex	Biotite gneiss	3184±43	LA-ICP-MS	Freimann 2014
Granjeiro Complex	Ultramafic	3042±43	LA-ICP-MS	Freimann 2014
Granjeiro Complex	Orthogneiss	3001±10	SHRIMP	Gomes et al. 2021
Granjeiro Complex	Orthogneiss	2802±3	LA-ICP-MS	Hollanda et al. 2015
Granjeiro Complex	Amphibolite	2764±53	SHRIMP	Gomes et al. 2021
Granjeiro Complex	Metaryolite	2715±29	LA-ICP-MS	Ancelmi 2016
Granjeiro Complex	Amphibolite	2713±18	LA-ICP-MS	Ancelmi 2016
Granjeiro Complex	Amphibolite	2654±26	LA-ICP-MS	Ancelmi 2016
Granjeiro Complex	Mafic metatuff	2590±11	LA-ICP-MS	Ancelmi 2016
Granjeiro Complex	Biotite-hornblende gneiss	2541±11	SHRIMP	Silva et al. 1997
Campo Grande Complex	Amphibolite	2692±13	LA-ICP-MS	Ferreira et al. 2020a
Campo Grande Complex	Amphibolite	2675±21	LA-ICP-MS	Ferreira et al. 2020a
Campo Grande Complex	Amphibolite	2663±16	LA-ICP-MS	Ferreira et al. 2020a
Campo Grande Complex	Amphibolite	2657±14	LA-ICP-MS	Ferreira et al. 2020a
Serra do Ingá Unit	Metamafic rock	2678±4	LA-ICP-MS	Dantas et al. 2019
Saquinho Complex	Augen gneiss	2512±3	LA-ICP-MS	Cavalcante et al. 2018
Saquinho Complex	Metamafic rock	2501±3	LA-ICP-MS	Cavalcante et al. 2018
Arábia Complex	Migmatite	2484±10	LA-ICP-MS	Ancelmi 2016
Arábia Complex	Diorite orthogneiss	2479±15	SHRIMP	Gomes et al. 2021
Arábia Complex	Orthogneiss	2479±18	LA-ICP-MS	Ferreira et al. 2019
Arábia Complex	Metaquartz-diorite	2461±30	LA-ICP-MS	Ancelmi 2016
Arábia Complex	Orthogneiss	2456±4	SHRIMP	Costa and Dantas 2012
Arábia Complex	Gneiss	2400±40	SHRIMP	Hollanda et al. 2011
Arábia Complex	Metaultramafic rock	2381±16	LA-ICP-MS	Cavalcante et al. 2019
Arábia Complex	Amphibolite	2370±21	SHRIMP	Gomes et al. 2021
Arábia Complex	Amphibolite	2367±12	LA-ICP-MS	Freimann 2014
Arábia Complex	Biotite gneiss	2356±12	LA-ICP-MS	Freimann 2014
Arábia Complex	Orthogneiss	2345±23	SHRIMP	Hollanda et al. 2011
Arábia Complex	Orthogneiss	2331±37	LA-ICP-MS	Dantas et al. 2008
Caicó Complex	Augen gneiss	2270±24	SHRIMP	Hollanda et al. 2011
Caicó Complex	Augen gneiss	2252±17	LA-ICP-MS	Medeiros et al. 2012b
Caicó Complex	Augen gneiss	2248±18	SHRIMP	Hollanda et al. 2011
Caicó Complex	Augen gneiss	2236±80	SHRIMP	Hollanda et al. 2011
Caicó Complex	Augen gneiss	2234±7	SHRIMP	Costa and Dantas 2014
Caicó Complex	Orthogneiss	2231±11	LA-ICP-MS	Ferreira et al. 2019
Caicó Complex	Orthogneiss	2230±10	LA-ICP-MS	Ferreira et al. 2019
Caicó Complex	Migmatitic gneiss	2225±12	LA-ICP-MS	Dantas et al. 2008
Caicó Complex	Granodiorite orthogneiss	2225±13	LA-ICP-MS	Souza et al. 2016
Caicó Complex	Orthogneiss	2217±11	LA-ICP-MS	Ferreira et al. 2019
Caicó Complex	Augen gneiss	2210±13	LA-ICP-MS	Cavalcante et al. 2018
Caicó Complex	Augen gneiss	2209±12	LA-ICP-MS	Freimann 2014

APPENDIX 2D – Compiled U-Pb zircon ages of orthoderived rocks from the Rio Piranhas-Seridó Domain (continued)

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference
Caicó Complex	Leucogneiss	2208±13	SHRIMP	Hollanda et al. 2011
Caicó Complex	Metaleucogabbro	2207±35	SHRIMP	Hollanda et al. 2011
Caicó Complex	Clinopyroxenite	2201±9	LA-ICP-MS	Ferreira et al. 2019
Caicó Complex	Metahornblendite	2198±13	LA-ICP-MS	Nascimento et al. 2011
Caicó Complex	Orthogneiss	2193±7	SHRIMP	Silva et al. 1997
Caicó Complex	Hornblendite	2192±10	LA-ICP-MS	Ferreira et al. 2019
Caicó Complex	Orthogneiss	2187±6	SHRIMP	Silva et al. 1997
Caicó Complex	Clinopyroxenite	2182±13	LA-ICP-MS	Ferreira et al. 2019
Caicó Complex	Hornblendite	2178±8	LA-ICP-MS	Ferreira et al. 2019
Caicó Complex	Augen gneiss	2172±24	SHRIMP	Hollanda et al. 2011
Caicó Complex	Augen gneiss	2171±20	LA-ICP-MS	Medeiros et al. 2012b
Caicó Complex	Migmatite	2168±9	LA-ICP-MS	Ancelmi 2016
Caicó Complex	Metagabbro	2152±8	ID-TIMS	Hackspacher et al. 1990
Caicó Complex	Metandesite	2150±18	LA-ICP-MS	Souza et al. 2016
Caicó Complex	Orthogneiss	2146±4	ID-TIMS	Hackspacher et al. 1990
Caicó Complex	Metapyroxenite	2129±5	LA-ICP-MS	Cavalcante et al. 2019
Caicó Complex	Granite sheet	2113±15	LA-ICP-MS	Souza et al. 2016
Poço da Cruz Suíte	Augen gneiss	1990±10	Pb-Pb (evaporation)	Jardim de Sá et al. 1995
Poço da Cruz Suíte	Augen gneiss	1934±12	ID-TIMS	Legrand et al. 1991
Poço da Cruz Suíte	Augen gneiss	1741±10	SHRIMP	Hollanda et al. 2011

APPENDIX 2E – Compiled U-Pb zircon ages of orthoderived rocks from the São José do Campestre Domain

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference
Santa Cruz Complex	Leucogranite gneiss	2069±22	ID-TIMS	Dantas 1997
Santa Cruz Complex	Tonalite orthogneiss	2184±16	ID-TIMS	Dantas 1997
Santa Cruz Complex	Augen gneiss	2230±33	ID-TIMS	Dantas 1997
Serrinha-Pedro Velho Complex	Quartz monzonite	2169±24	SHRIMP	Lima and Dantas 2016
Serrinha-Pedro Velho Complex	Hornblende-biotite tonalite orthogneiss	2183±5	ID-TIMS	Dantas 1997
Serrinha-Pedro Velho Complex	Orthogneiss	2186±3	Pb-Pb (evaporation)	Guimarães et al. 2008
Serrinha-Pedro Velho Complex	Hornblende-biotite tonalite orthogneiss	2187±8	ID-TIMS	Dantas 1997
Serrinha-Pedro Velho Complex	Trondjemite migmatite	2203±4	ID-TIMS	Dantas 1997
Caiongo Orthogneiss	Augen gneiss	2223±32	SHRIMP	Dátoli et al. 2020
São José do Campestre Granitoid	Syenogranite	2655±4	ID-TIMS	Dantas 1997; Dantas et al. 2004
São José do Campestre Granitoid	Syenogranite	2685±9	ID-TIMS	Dantas 1997; Dantas et al. 2004
Senador Elói de Souza Complex	Hedbergite anorthositic gneiss	3033±3	ID-TIMS	Dantas 1997
Riacho das Telhas Complex	Magnetite-ferrosilite clinopyroxenite	3041±23	LA-ICP-MS	Abrahão Filho 2016
Riacho das Telhas Complex	Diopside-hornblende gabbro	3083±17	LA-ICP-MS	Jesus 2011
Serra Caiada Complex	Biotite granitic gneiss	3058±14	LA-ICP-MS	Souza et al. 2016
Serra Caiada Complex	Biotite granitic gneiss	3393±17	LA-ICP-MS	Souza et al. 2016
Brejinho Complex	Trondjemite gneiss	3178±8	ID-TIMS	Dantas 1997; Dantas et al. 2004
Presidente Juscelino Complex	Monzogranite orthogneiss	3356±21	ID-TIMS	Souza et al. 2010; Souza et al. 2016
Presidente Juscelino Complex	Monzogranite orthogneiss	3255±4	ID-TIMS	Dantas 1997; Dantas et al. 2004
Bom Jesus Metatonalite	Hornblende-biotite tonalite orthogneiss	3412±8	ID-TIMS	Dantas 1997; Dantas et al. 2004

APPENDIX 2F – Compiled U-Pb zircon ages of syn- to late-tectonic magmatic suites.

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference	Domain
Dona Inês Suite	Leucogranite	527±8	SHRIMP1	Hollanda et al. 2017	Rio Piranhas-Seridó
Dona Inês Suite	Monzogranite (porphyritic)	538±2	SHRIMP1	Oliveira and Cunha 2018	Rio Piranhas-Seridó
Dona Inês Suite	Biotite granite	540±4	SHRIMP1	Hollanda et al. 2017	Rio Piranhas-Seridó
São João do Sabugi Suite	Gabbro	543±21	LA-ICP-MS1	Souza et al. 2016	Rio Piranhas-Seridó
Macaco Body	Leucogranite	545±10	LA-ICP-MS1	Braga et al. 2013	Ceará Central
Dona Inês Suite	Granite	545±8	LA-ICP-MS1	Souza et al. 2016	Rio Piranhas-Seridó
Itaporanga Suite	Biotite granite	549±4	SHRIMP1	Hollanda et al. 2017	São José do Campestre
Catingueira Suite	Leuconorite	553±10	LA-ICP-MS	Souza et al. 2006	São José do Campestre
Dona Inês Suite	Biotite monzogranite (porphyritic)	560±6	LA-ICP-MS1	Souza et al. 2016	Rio Piranhas-Seridó
Dona Inês Suite	Biotite monzogranite (equigranular)	561±4	LA-ICP-MS1	Medeiros et al. 2017	Rio Piranhas-Seridó
Tucunduba Body	Syenite	563±17	ID-TIMS1	Fetter 1999	Médio Coreau
Itaporanga Suite	Granite (porphyritic)	566±3	LA-ICP-MS1	Lima et al. 2017	São José do Campestre
Dona Inês Suite	Biotite monzogranite (porphyritic)	570±27	LA-ICP-MS1	Souza et al. 2016	Rio Piranhas-Seridó
Itaporanga Suite	Monzogranite	570±6	LA-ICP-MS1	Vieira 2019	Jaguaribeano
Tauá Suite	Diorite	571±3	SHRIMP1	Ávila et al. 2020	Ceará Central
Itaporanga Suite	Monzogranite	572±8	ID-TIMS1	Guimarães et al. 2009	São José do Campestre
Dona Inês Suite	Biotite granite (equigranular)	572±2	SHRIMP1	Cunha et al. 2017	Rio Piranhas-Seridó
Itaporanga Suite	Leucogranite (equigranular)	572±5	SHRIMP1	Archanjo et al. 2013.	Rio Piranhas-Seridó
Itaporanga Suite	Granite (porphyritic)	573±7	LA-ICP-MS1	Galindo et al. 2005	São José do Campestre
São João do Sabugi Suite	Monzogranite	573±22	ID-TIMS	Jardim de Sá 1994	Rio Piranhas-Seridó
Itaporanga Suite	Granite (porphyritic)	574±10	ID-TIMS	Trindade et al. 1999	Rio Piranhas-Seridó
Itaporanga Suite	Biotite syenogranite (porphyritic)	574±3	LA-ICP-MS1	Medeiros et al. 2008	Rio Piranhas-Seridó
Guaribas Body (Tauá Suite)	Quartz latite	575±3	LA-ICP-MS1	Costa et al. 2019	Ceará Central
Itaporanga Suite	Granite (porphyritic)	576±3	LA-ICP-MS1	Dias 2006; Galindo et al. 2005	São José do Campestre
São João do Sabugi Suite	Olivine gabbro	576±4	LA-ICP-MS1	Souza et al. 2016	São José do Campestre
Tauá Suite	Granite	576±10	SHRIMP1	Ávila et al. 2020	Ceará Central
Itaporanga Suite	Biotite monzogranite (porphyritic)	577±3	SHRIMP1	Medeiros et al. 2017	Rio Piranhas-Seridó
Dona Inês Suite	Leucogranite	577±5	SHRIMP1	Hollanda et al. 2017	Rio Piranhas-Seridó
Itaporanga Suite	Granite (porphyritic)	577±5	SHRIMP1	Archanjo et al. 2013	Rio Piranhas-Seridó
Dona Inês Suite	Biotite monzogranite (equigranular)	579±3	SHRIMP1	Silva et al. 2017	Rio Piranhas-Seridó
Dona Inês Suite	Biotite monzogranite (equigranular)	579±7	LA-ICP-MS1	Fonseca 2019	Rio Piranhas-Seridó
São João do Sabugi Suite	Diorite	579±7	ID-TIMS	Jardim de Sá 1994	Rio Piranhas-Seridó
Itaporanga Suite	Granite (porphyritic)	580±4	ID-TIMS	Trindade et al. 1999	Rio Piranhas-Seridó
Itaporanga Suite	Granite (porphyritic)	580±9	SHRIMP1	Long et al. 2019	Rio Piranhas-Seridó
Dona Inês Suite	Leucogranite dike	582±5	SHRIMP1	Guimarães et al. 2017	São José do Campestre
Guaribas Body (Tauá Suite)	Dacite	584±6	SHRIMP1	Ávila et al. 2020	Ceará Central
Tauá Suite	Diorite	585±11	SHRIMP1	Ávila et al. 2020	Ceará Central
Quixadá Body (Itaporanga Suite)	Monzonite	585±5	ID-TIMS1	Nogueira 2004	Ceará Central
Rio Quixeramobim Body (Itaporanga Suite)	Monzogranite	587±14	ID-TIMS1	Nogueira 2004	Ceará Central
São João do Sabugi Suite	Gabbro	588±6	SHRIMP1	Guimarães et al. 2017	São José do Campestre
Itaporanga Suite	Granite (porphyritic)	591±4	SHRIMP1	Archanjo et al. 2013	Rio Piranhas-Seridó
Jardim do Seridó Suite	Monzogranite	592±2	SHRIMP1	Cabral Neto et al. 2019	Rio Piranhas-Seridó
Umarizal Suite	Quartz monzonite	593±5	ID-TIMS	McReath et al. 2002	Rio Piranhas-Seridó
Anil Body (Tauá Suite)	Granodiorite	594±12	LA-ICP-MS1	Silva 2019	Ceará Central
Pedra Aguda Body (São João do Sabugi Suite)	Jotunite	594±12	Pb/Pb (evaporation) ¹	Bessa 2000	Ceará Central
São João do Sabugi Suite	Diorite	595±3	SHRIMP1	Archanjo et al. 2013	Rio Piranhas-Seridó
Pedra Aguda Body (São João do Sabugi Suite)	Norite	595±8	Pb/Pb (evaporation) ¹	Bessa 2000	Ceará Central
Itaporanga Suite	Monzogranite (porphyritic)	596±3	SHRIMP1	Hollanda et al. 2015	Rio Piranhas-Seridó
Catingueira Suite	Granite	597±4	LA-ICP-MS1	Souza et al. 2016	São José do Campestre

APPENDIX 2F – Compiled U-Pb zircon ages of syn- to late-tectonic magmatic suites (continued)

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference	Domain
São João do Sabugi Suite	Gabbronorite	597±6	SHRIMP1	Archanjo et al. 2013	Rio Piranhas-Seridó
Dona Inês Suite	Leucosyenogranite	598+11	LA-ICP-MS1	Dantas 1997	São José do Campestre
Conceição Suite	Amphibole-biotite granodiorite	598±5	SHRIMP1	Nascimento et al. 2018	Rio Piranhas-Seridó
Catingueira Suite	Hypersthene diorite	599+16	LA-ICP-MS1	Dantas 1997	São José do Campestre
Umarizal Suite	Quartz monzonite	601±11	LA-ICP-MS1	Sá et al. 2013	Rio Piranhas-Seridó
Genezaré Body	Granite	602±2	LA-ICP-MS1	Medeiros et al. 2012a	Rio Piranhas-Seridó
Granito Quixaba	Quartz monzonite	618±9	LA-ICP-MS1	Sá et al. 2013	Rio Piranhas-Seridó
Banabuiú Suite	Leucogranite	620±6	LA-ICP-MS1	Palheta 2017	Jaguaribeano
Catingueira Suite	Amphibole-biotite granodiorite	623+4	LA-ICP-MS	Brito Neves et al. 2008	São José do Campestre
Chaval Body (Itaporanga Suite)	Granite	633±11	LA-ICP-MS1	Aragão et al. 2020	Médio Coreaú
Chaval Body (Itaporanga Suite)	Granite	633±8	LA-ICP-MS1	Aragão et al. 2020	Médio Coreaú

Key to method: 1 – zircon; 2 – columbite; 3 – monazite; 4 – xenotime-uraninite

APPENDIX 2G – Compiled U-Pb zircon ages of late- to post-tectonic magmatic suite.

Lithostratigraphic Unit	Rock type	Age (Ma)	Method	Reference	Domain
Taparuaba Suite	Granite	468±14	SHRIMP ¹	Castro 2004	Ceará Central
Ediacaran-Cambrian magmatism	Pegmatitic granite	491±26	LA-ICP-MS ¹	Degen et al. 2019	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Pegmatite	509±3	LA-ICP-MS ²	Baumgartner et al. 2006	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Pegmatite	510±0.4	LA-ICP-MS ²	Baumgartner et al. 2006	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Pegmatite	512±3	LA-ICP-MS ²	Baumgartner et al. 2006	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Pegmatite	514±1	LA-ICP-MS ²	Baumgartner et al. 2006	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Pegmatite	514±2	LA-ICP-MS ²	Baumgartner et al. 2006	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Pegmatite	515±1	LA-ICP-MS ²	Baumgartner et al. 2006	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Pegmatitic granite	520±10	EPMA ⁴	Beurlen et al. 2009	Rio Piranhas-Seridó
Serra do Barriga Body (Meruoca Suite)	Granite	522±8	ID-TIMS ²	Mattos et al. 2007	Ceará Central
Meruoca Body (Meruoca Suite)	Granite	523±9	SHRIMP ¹	Archanjo et al. 2009	Médio Coreau
Ediacaran-Cambrian magmatism	Pegmatitic granite	528±12	ICPMS-LA ³	Baumgartner et al. 2006	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Peraluminous pegmatite granite	528±12	ID-TIMS ³	Baumgartner et al. 2006	Rio Piranhas-Seridó
Pajé Body (Meruoca Suite)	Syenogranite	528±3	Pb-Pb (evaporation) ¹	Nascimento 2012	Ceará Central
Mucambo Body (Meruoca Suite)	Granodiorite	532±7	ID-TIMS ¹	Fetter 1999	Médio Coreau
Meruoca Body (Meruoca Suite)	Granite	539±4	LA-ICP-MS ¹	Garcia et al. 2018	Médio Coreau
Ediacaran-Cambrian magmatism	Pegmatitic granite	549±4	SHRIMP ¹	Hollanda et al. 2017	Rio Piranhas-Seridó
Ediacaran-Cambrian magmatism	Albite granite	561±4	LA-ICP-MS ¹	Santiago et al. 2019	Rio Piranhas-Seridó

Key to method: 1 – zircon; 2 – monazite