Tectono-stratigraphic domains of the Borborema Province in NE Ceará State, Brazil

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A new compartmentation of the Borborema Province is proposed for the northeastern region of Ceará State, dividing it into three tectono-stratigraphic domains, with specific peculiarities in their evolutionary histories:

(i) *Rio Piranhas Domain:* composed by the undifferentiated São Vicente and Caicó domains, both exhibiting a dominant tonalite-granodiorite-granite with trodhjemitic fractions, orthoderived affiliation, outstanding migmatization and Paleoproterozoic age.

(ii) *Orós-Jaguaribe Domain*: it includes the plutonic-volcano-sedimentary assemblage of an intracontinental basin system started by 1.8Ga, corresponding to the Orós and Jaguaribe groups. These are underlain by a lithological assemblage named Jaguaretama Complex, which is of Paleoproterozoic age and in part migmatitic, encompassing granodioritic, tonalitic and granitic orthogneisses, kinzigites, quartzites and subordinate metacarbonates and calc-silicate rocks.

(iii) *Ceará Central Domain:* it comprises the Cruzeta Complex, of Archaean age, interpreted as a magmatic arc with prevalence of high grade orthogneisses ranging from tonalitic to granitic, envolving calc-sodic terms with juvenile signatures and sodi-potassic that reflect crustal reworking. Around the complex occur Paleoproterozoic platformal metasediments, represented by the Baturité and Quixeramobim sequences, and pelagic sediments of the Chorozinho and Acopiara sequences. Superposed to the Cruzeta Complex there occur sandy-conglomeratic metasediments displaying para-autoctonous features with Mesoproterozoic inferred age, and correlated to the Choró Unit.