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Paleoecological requirements of palynofloras support seasonally warmer and humid climates in a lower paleolatitude position of southern Brazil new findings of the *Lueckisporites virkkiae* zone (late Cisuralian-Guadalupian) in the *Serra do Rio do Rastro* and neighboring localities (Paraná Basin) in Santa Catarina, Brazil

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1 **New findings of the *Lueckisporites virkkiae* Zone (late Cisuralian-Guadalupian) in**
2 **the *Serra do Rio do Rastro* and neighboring localities (Paraná Basin) in Santa**
3 **Catarina, Brazil**

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Abstract

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First palynological information from surface samples of the Serra Alta and Rio do Rastro
22 formations (Passa Dois Group, Paraná Basin), exposed in the Serra do Rio do Rastro
23 (White's Column) and Urubici regions in Santa Catarina State (Brazil) is presented. The
24 Serra Alta Formation is transitionally deposited over the Irati Formation, which is
25 constrained to the late Artinskian/Kungurian by different paleontological and

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