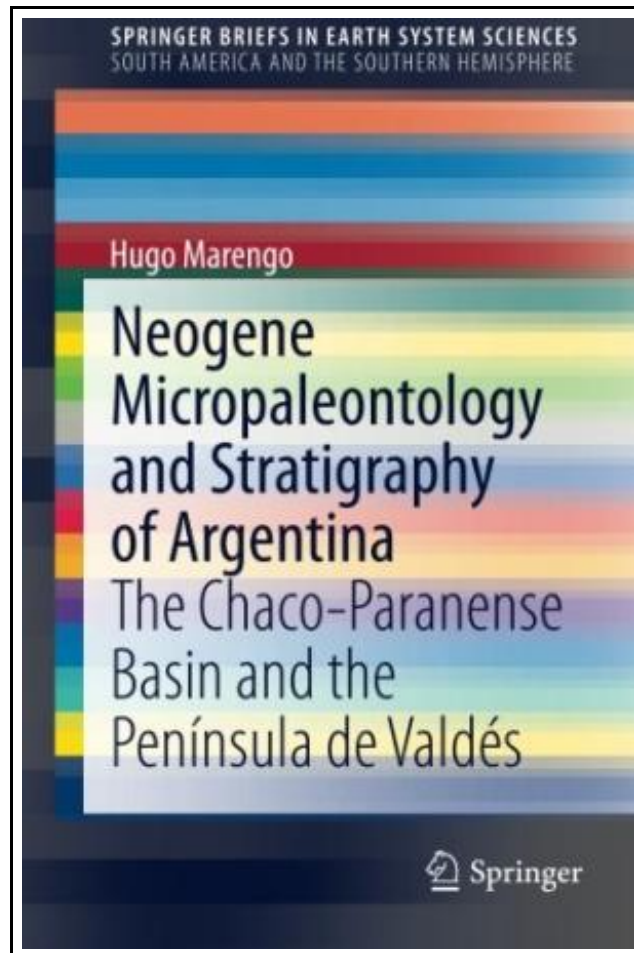


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NEOGENE MICROPALAEONTOLOGY AND STRATIGRAPHY OF ARGENTINA: THE CHACO-PARANENSE BASIN AND THE PENINSULA DE VALDES



Springer International Publishing AG, Switzerland, 2015. Paperback. Book Condition: New. 2015 ed.. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.The micropalaeontologic composition and some sedimentologic features were studied in 18 boreholes in the Chacoparanense and Salado Basins, and it was evaluated information from about 180 additional boreholes. Two marine levels were recognized interbedded with continental sediments; each marine level is characterized by specific associations of foraminifers, ostracods and calcareous nannoplankton. The lower marine level was erroneously assigned in the past to the Maastrichtian-Danian; it is called the Laguna Paiva Transgression (TLP) and bears microfossils of Late Oligocene?-Early Miocene age. The upper marine level corresponds to the Parana Formation or the Entrerriense-Paranense Transgression (TEP), from the Middle-Late? Miocene. Both transgressions flooded the whole Pampa and Chaco Plains and reached some sectors in the Sierras Pampeanas, Cuyo and Northwest of Argentina; the TLP and TEP can be correlated respectively with the Leonense and Entrerriense transgressions in the Patagonia. In the Salado Basin the TLP is characterized by microfaunas with low to moderate diversity, dominated by Elphidium spp., Cribroelphidium spp., big and ornamented miliolids, ostracods and nannofossils belonging to the biozones NP25-NN1 (Chatian-Aquitania); in the Chacoparanense Basin, Cribroelphidium, Nonion, Ammonia and Peneroplis are the most outstanding genera. The microfaunas of the TEP belongs to the P. tuberculatum informal Zone; nannofossils of the Salado Basin are typical of the Biozone NN6 (Middle Serravalian). The microfossil assemblages suggests tropical to subtropical climates during the TLP. The water temperature could be higher than today s adjacent seas during the TEP, but lower than during the TLP. The first calcareous nannoplankton recovery is reported from both the TLP, the TEP and from the Miocene of Argentina. The samples with maximum abundance and diversity of foraminifers and ostracods may represent the...



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