



Dynamics of the Pantanal Wetland in South America /

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This book provides readers with in-depth insights into the changes in the Pantanal wetland from its formation to the actual and likely future states. It reveals that today's Pantanal is an evolutionary consequence of geological, ecological and, more recently, man-made events taking place at distinct space-time intervals. Topics include geotectonics and sun-earth interactions, which largely dictate the rate of drastic changes that eventually disrupt ecological stability and radically rebuild the regional landscape. Furthermore, the biota-climate system is discussed as a major driver reshaping the ecohydrology functioning of the landscape on an intermediate timescale. Also covered are major changes in the landscape ecohydrology and biodiversity due to recent land-use and climate changes induced by humankind in the Anthropocene. The ability to recognize how those temporal scales impact the Pantanal wetland provides the opportunity for wise management approaches and the sustainable development of the region

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