



Dynamics of the Pantanal Wetland in South America /

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Springer International Publishing :
Imprint: Springer,
2016

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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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Título: Dynamics of the Pantanal Wetland in South America edited by Ivan Bergier, Mario Luis Assine

Edición: 1st ed. 2016

Editorial: Cham Springer International Publishing Imprint: Springer 2016

Descripción física: 1 recurso en línea XVI, 243 p.

Mención de serie: The Handbook of Environmental Chemistry 1867-979X 37 Springer eBooks

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Detalles del sistema: Modo de acceso: World Wide Web

ISBN: 9783319187358

Materia: Environment Water quality Water pollution Climate change Analytical chemistry Hydrogeology Geotechnical engineering Environmental chemistry Environment Environmental Chemistry Water Quality/Water Pollution Hydrogeology Analytical Chemistry Geotechnical Engineering & Applied Earth Sciences Climate Change /Climate Change Impacts

Autores: Bergier, Ivan., editor Assine, Mario Luis., editor

Entidades: SpringerLink (Online service)

Punto acceso adicional serie-Título: The Handbook of Environmental Chemistry 1867-979X 37

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