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Modeling Modern Methane Emissions from Natural Wetlands, 1: Model Description

By Bernadette P. Walter

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 40 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Methane is an important greenhouse gas which contributes about 22 to the present greenhouse effect. Natural wetlands currently constitute the biggest methane source and were the major one in pre-industrial times. Wetland emissions depend highly on the climate, i. e. , on soil temperature and water table. In order to investigate the response of methane emissions from natural wetlands to climate variations, a process-based model that derives methane emissions from natural wetlands as a function of soil temperature, water table, and Net Primary Productivity is used. For its application on the global scale, global data sets for all model parameters are generated. In addition, a simple hydrologic model is developed in order to simulate the position of the water table in wetlands. The hydrologic model is tested against data from different wetland sites, and the sensitivity of the hydrologic model to changes in precipitation is examined. The global methane-hydrology model constitutes a tool to study temporal and spatial variations in methane emissions from natural wetlands. This item ships from La Vergne, TN. Paperback.



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