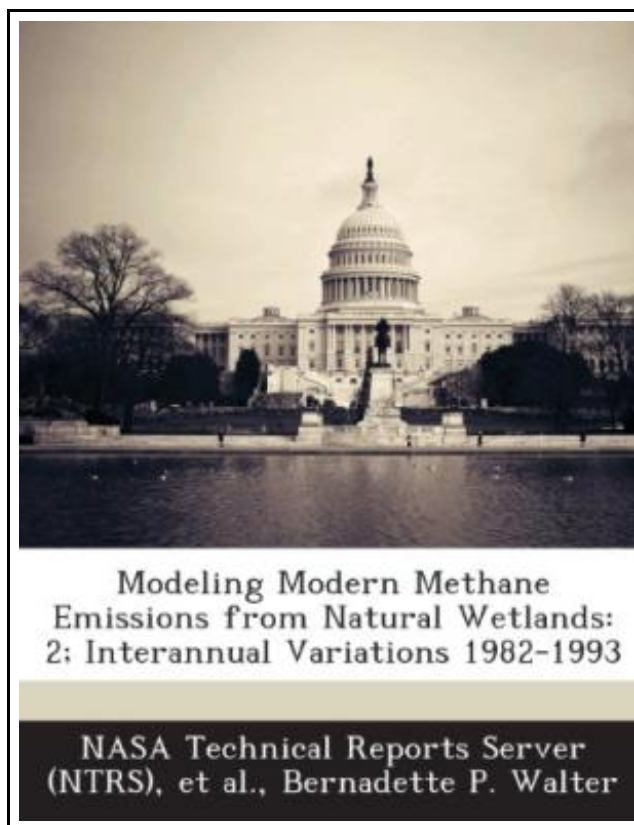


Modeling Modern Methane Emissions from Natural Wetlands: 2 Interannual Variations 1982-1993



Filesize: 6.99 MB

Reviews

A must buy book if you need to adding benefit. It is rally intriguing throug reading time period. I am pleased to tell you that here is the very best book i actually have study in my very own lifestyle and may be he finest ebook for at any time.

(Ms. Lora West Jr.)

MODELING MODERN METHANE EMISSIONS FROM NATURAL WETLANDS: 2 INTERANNUAL VARIATIONS 1982-1993

DOWNLOAD



Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 54 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. A global run of a process-based methane model Walter et al. , this issue is performed using high-frequency atmospheric forcing fields from ECMWF reanalyses of the period from 1982 to 1993. We calculate global annual methane emissions to be 260 Tg yr. 25 of methane emissions originate from wetlands north of 30 deg. N. Only 60 of the produced methane is emitted, while the rest is re-oxidized. A comparison of zonal integrals of simulated global wetland emissions and results obtained by an inverse modeling approach shows good agreement. In a test with data from two wetlands, the seasonality of simulated and observed methane emissions agrees well. The effects of sub-grid scale variations in model parameters and input data are examined. Modeled methane emissions show high regional, seasonal and interannual variability. Seasonal cycles of methane emissions are dominated by temperature in high latitude wetlands, and by changes in the water table in tropical wetlands. Sensitivity tests show that - 1 C changes in temperature lead to - 20 changes in methane emissions from wetlands. Uniform changes of - 20 in precipitation alter methane emissions by about - 18. Limitations in the model are analyzed. Simulated interannual variations in methane emissions from wetlands are compared to observed atmospheric growth rate anomalies. Our model simulation results suggest that contributions from other sources than wetlands and/or the sinks are more important in the tropics than north-of 30 deg. N. In higher northern latitudes, it seems that a large part, of the observed interannual variations can be explained by variations in wetland emissions. Our results also suggest that reduced wetland emissions played an important role in the observed negative methane growth rate anomaly in 1992. This...



[Read Modeling Modern Methane Emissions from Natural Wetlands: 2 Interannual Variations 1982-1993 Online](#)



[Download PDF Modeling Modern Methane Emissions from Natural Wetlands: 2 Interannual Variations 1982-1993](#)

Related Books



Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities

HarperCollins Publishers Inc, United States, 2016. Paperback. Book Condition: New. Reprint. 203 x 135 mm. Language: English . Brand New Book. An international bestseller, Barbara Coloroso s groundbreaking and trusted guide on bullying-including cyberbullying-arms parents...

[Download eBook »](#)



The Lifestyle Business Rockstar!: Quit Your 9 -5, Kick Ass, Work Less, and Live More!

Createspace, United States, 2013. Paperback. Book Condition: New. 213 x 137 mm. Language: English . Brand New Book ***** Print on Demand *****.Starting a Small Business-a Lifestyle Business that Supports Your Desired Lifestyle Do You...

[Download eBook »](#)



Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School

Book Condition: Brand New. Book Condition: Brand New.

[Download eBook »](#)



Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.

[Download eBook »](#)



Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.

[Download eBook »](#)