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Uncertainties in Environmental Modelling and Consequences ...
Mathematical modelling has become in recent years an essential tool for the prediction of environmental change and for the development of sustainable policies. Yet, many of the uncertainties associated with modelling efforts appear poorly understood by many, especially by policy makers. This book

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IWRM deals with complex problems involving technological, environmental, economical and societal aspects. In addition a wide range of uncertainties ranging from ambiguity in defining problems and goals to uncertainty in data and models have to be taken into account in the management process.

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Abstract In the support of environmental management, models are frequently used. The outcomes of these models however, rarely show a perfect resemblance to the real-world system behavior. This is due to uncertainties, introduced during the process of abstracting information about the system to include it in the model.

Identification and classification of uncertainties in the ...
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Uncertainty in the predictions of science when applied to the environment is an issue of great current relevance in relation to the impacts of climate change, protecting against natural and man-made disasters, pollutant transport and sustainable resource management. However, it is often ignored both by scientists and decision makers, or

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Epistemic uncertainties create difficulties for the quantitative estimation of uncertainties associated with environmental models. The nature of the issues involved is discussed, particularly in how to assign likelihood values to models when the forcing data and evaluation data might both be subject to epistemic uncertainties.

Struggling with Epistemic Uncertainties in Environmental ...
Corresponding Author. National Institute for Agro-Environmental Sciences, Tsukuba, Japan. Members of leading group of AgMIP Rice Team. All other authors had equivalent contributions and are in alphabetical order by surnames.Correspondence: Toshihiro Hasegawa, tel. +81 29 838 8204, fax +81 29 838 8211, e-mail: thase@affrc.go.jp; X. Yin, tel. +31 317 482 348, fax +31 317 485 572, e-mail ...

Uncertainties in predicting rice yield by current crop ...
The important characteristic feature of environmental modelling is the complexity and uncertainty of its mathematical representation (uncertainty of formula).

Current Trends in Environmental Modelling with Uncertainties
It thus generates a distribution of outputs which reflects the uncertainties in the models. Monte Carlo simulation is a very useful technique when the assessment concerns the probability of exceeding a specified (e.g. safe) limit, or where models are highly non-linear, but it can be computationally expensive. Bayesian statistical modeling. The ...

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ACP - The potential of Orbiting Carbon Observatory-2 data ...
The Global Water System in the Anthropocene. The Global Water System in the Anthropocene pp 45-58 | Cite as. Data, Models and Uncertainties in the Global Water Cycle

Data, Models and Uncertainties in the Global Water Cycle ...
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