Nitrous Oxide and Climate Change

Nitrous Oxide and Climate Change

Nitrous Oxide and Climate Change
Nitrous oxide, N2O, is the third most important (in global warming terms) of the greenhouse gases, after carbon dioxide and methane. As this book describes, although it only comprises 320 parts per billion of the earth's atmosphere, it has a so-called Global Warming Potential nearly 300 times greater than that of carbon dioxide. N2O emissions are difficult to estimate, because they are predominantly biogenic in origin. The N2O is formed in soils and oceans throughout the world, by the microbial processes of nitrification and denitrification, that utilise the reactive N compounds ammonium and nitrate, respectively. These forms of nitrogen are released during the natural biogeochemical nitrogen cycle, but are also released by human activity. In fact, the quantity of these compounds entering the biosphere has virtually doubled since the beginning of the industrial age, and this increase has been matched by a corresponding increase in N2O emissions. The largest source is now agriculture, driven mainly by the use of synthetic nitrogen fertilisers. The other major diffuse source derives from release of NOx into the atmosphere from fossil fuel combustion and biomass burning, as well as ammonia from livestock manure. Some N2O also comes directly from combustion, and from two processes in the chemical industry: the production of nitric acid, and the production of adipic acid, used in nylon manufacture. Action is being taken to curb the industrial point-source emissions of N2O, but measures to limit or reduce agricultural emissions are inherently more difficult to devise. As we enter an era in which measures are being explored to reduce fossil fuel use and/or capture or sequester the CO2 emissions from the fuel, it is likely that the relative importance of N2O in the 'Kyoto basket' of greenhouse gases will increase, because comparable mitigation measures for N2O are inherently more difficult, and because expansion of the land area devoted to crops, to feed the increasing global population and to accommodate the current development of biofuels, is likely to lead to an increase in N fertiliser use, and thus N2O emission, worldwide. The aim of this book is to provide a synthesis of scientific information on the primary sources and sinks of nitrous oxide and an assessment of likely trends in atmospheric concentrations over the next century and the potential for mitigation measures.

Download and Read Free Online Nitrous Oxide and Climate Change

---

From reader reviews:

Justin Fernandez:

In this 21st one hundred year, people become competitive in each way. By being competitive currently, people have do something to make them survives, being in the middle of the particular crowded place and notice through surrounding. One thing that occasionally many people have underestimated the item for a while is reading. Sure, by reading a e-book your ability to survive increase then having chance to remain than other is high. For you who want to start reading a new book, we give you that Nitrous Oxide and Climate Change book as starter and daily reading guide. Why, because this book is more than just a book.

Edna Kissel:

Information is provisions for people to get better life, information currently can get by anyone from everywhere. The information can be a know-how or any news even an issue. What people must be consider whenever those information which is within the former life are challenging be find than now is taking seriously which one works to believe or which one the particular resource are convinced. If you find the unstable resource then you obtain it as your main information you will have huge disadvantage for you. All of those possibilities will not happen with you if you take Nitrous Oxide and Climate Change as the daily resource information.

Julie Gooch:

People live in this new morning of lifestyle always aim to and must have the spare time or they will get wide range of stress from both way of life and work. So , once we ask do people have free time, we will say absolutely indeed. People is human not a robot. Then we question again, what kind of activity have you got when the spare time coming to anyone of course your answer will certainly unlimited right. Then do you try this one, reading ebooks. It can be your alternative with spending your spare time, the book you have read is definitely Nitrous Oxide and Climate Change.

Nona Smith:

Don't be worry if you are afraid that this book will filled the space in your house, you can have it in e-book way, more simple and reachable. This specific Nitrous Oxide and Climate Change can give you a lot of friends because by you taking a look at this one book you have point that they don't and make anyone more like an interesting person. This specific book can be one of one step for you to get success. This publication offer you information that perhaps your friend doesn't realize, by knowing more than some other make you to be great folks. So , why hesitate? We should have Nitrous Oxide and Climate Change.

Read Nitrous Oxide and Climate Change for online ebook

Nitrous Oxide and Climate Change Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Nitrous Oxide and Climate Change books to read online.

Online Nitrous Oxide and Climate Change ebook PDF download

Nitrous Oxide and Climate Change Doc

Nitrous Oxide and Climate Change Mobipocket

Nitrous Oxide and Climate Change EPub