

## The Earth System Kump

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### **Anoxic event - Wikipedia**

TED Talk Subtitles and Transcript: Asteroid strikes get all the coverage, but "Medea Hypothesis" author Peter Ward argues that most of Earth's mass extinctions were caused by lowly bacteria. The culprit, a poison called hydrogen sulfide, may have an interesting application in medicine.

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Earth, with its life-filled ocean, is unusual among planets ( ).Covering 71% of Earth's surface, the



What caused the stepwise nature of the rise of molecular oxygen in Earth's atmosphere since it appeared in large quantities more than 2 billion years ago? Alcott et al. argue that a set of internal feedbacks involving the global phosphorus, carbon, and oxygen cycles, not individual external forces, could be responsible. Their model, which depends only on a gradual shift from reducing to ...

### **Hypothèse Gaïa — Wikipédia**

Large Igneous Provinces (LIPs) are associated with the largest climate perturbations in Earth's history. The North Atlantic Igneous Province (NAIP) and Paleocene-Eocene Thermal Maximum (PETM

...

### **Global Biogeochemical Cycles - Wiley Online Library**

L'hypothèse Gaïa, appelée également hypothèse biogéochimique [2], est une hypothèse controversée, initialement avancée en 1970 par le climatologue anglais James Lovelock en collaboration avec la microbiologiste américaine Lynn Margulis, mais également évoquée par d'autres scientifiques avant eux, selon laquelle la Terre serait « un système physiologique dynamique qui inclut la ...

### **Acidificazione degli oceani - Wikipedia**

Key Message 2 Future Changes in Global Climate. Earth's climate will continue to change over this century and beyond. Past mid-century, how much the climate changes will depend primarily on global emissions of greenhouse gases and on the response of Earth's climate system to human-induced warming.

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Background. The concept of the oceanic anoxic event (OAE) was first proposed in 1976 by Seymour Schlanger (1927–1990) and geologist Hugh Jenkyns and arose from discoveries made by the Deep

Sea Drilling Project (DSDP) in the Pacific Ocean. It was the finding of black carbon-rich shales in Cretaceous sediments that had accumulated on submarine volcanic plateaus (Shatsky Rise, Manihiki Plateau ...

### **Lithological Map of the World - CCGM - CGMW**

Climate Change background info An introduction to climate change . Changes in the climate have been happening for hundreds of thousands of years, and until recent centuries, most of these changes were naturally occurring – for instance, because of ice-ages and then post-glacial periods.

### **Scientists explain what New York Magazine article on “The ...**

If today you again take the perspective of the last 30 years and extrapolate far into the future, it is possible to conclude that the short-term trend is warming (figure 1).<sup>9</sup> Actually, over the last century, it appears that the temperature rose from 1900 to 1940, declined slightly from 1940 to 1970 and increased from 1980 to around 2000. It is easy to make headlines by drawing sweeping ...

### **15 Global Climate Change - An Introduction to Geology**

SCIENTISTS' FEEDBACK SUMMARY. New York Magazine published an article by David Wallace-Wells detailing the potential impacts of climate change if no action is taken to reduce greenhouse gas emissions. Much of the article explores “worst case” scenarios of change in the climate system and the resulting impacts on human populations.

### **The Impact of Climate Change on the World's Marine ...**

ML: Many mainstream scientists feel that to “work within” the system, they have to use language that politicians and economists can understand in order to maintain credibility, i.e. the “value of ecosystem services”. Attempting to place a monetary value on every aspect of nature while externalizing the environmental cost of pollution is a major flaw of our economic system.

### **Understanding Earth's Deep Past: Lessons for Our Climate ...**

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### **Stepwise Earth oxygenation is an inherent property of ...**

15.2 Evidence of Recent Climate Change. While climate has changed many times in the past (see chapter 14.5.1 and chapter 15.3), the scientific consensus is that human activity is causing climate to change today more rapidly .While this seems like a new idea, it has been suggested for more than 75 years .This section describes the evidence that scientists agree is most likely a result of ...

### **ARTC - Extranet - Engineering**

L'acidificazione degli oceani è il nome dato alla decrescita del valore del pH oceanico, causato dalla assunzione di anidride carbonica di origine antropica dall'atmosfera. Circa un quarto della CO<sub>2</sub> presente nell'atmosfera va a finire negli oceani dove si trasforma in acido carbonico (H<sub>2</sub>CO<sub>3</sub>).. All'aumento di CO<sub>2</sub> nell'atmosfera corrisponde perciò un corrispondente incremento di quella ...

### **Climate Change background info | Clean Foundation**

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### **Earth system science - Wikipedia**

Because of the extended timescale—several centuries—necessary for climate to adjust to an increase in atmospheric CO<sub>2</sub>, the current icehouse climate is out of equilibrium with long-term CO<sub>2</sub> forcing (Hansen et al., 2008). As the planet continues to warm, it may be approaching a critical

climate ...