

Chapter 08, Variability And Change In The Ocean - Ann Henderson-sellers

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The ocean is host to a vast diversity of life; it is of immense social and economic value to us and it plays a crucial role in the climate system over synoptic to multi millennium timescales. Consequently, it is of great importance to understand changes that oceans have gone through in the past and how they might change in the future. In the context of anthropogenic climate change, the ocean acts as an important buffer. The majority of extra heat entering the climate system through enhanced greenhouse forcing, and almost half of the anthropogenic carbon dioxide (CO₂) since preindustrial times have been sequestered and stored in the ocean. While mitigating against more rapid temperature rise in the atmosphere, the oceanic absorption of heat and CO₂ has impacts on the ocean environment. The absorption of heat has caused thermal expansion of the ocean, which is a major contributor to global sea-level rise. Author: Henderson-Sellers, Ann Publisher: Elsevier Science Illustration: N Language: ENG Title: Chapter 08, Variability and Change in the Ocean Pages: 00000 (Encrypted EPUB) On Sale: 2011-12-19 SKU-13/ISBN: 9780124096264 Category: Science : Environmental Science Category: Science : Earth Sciences - Meteorology & Climatology

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