

1. Record Nr.	UNINA9910823469303321
Autore	Berner Robert A. <1935->
Titolo	The phanerozoic carbon cycle : CO and O // Robert A. Berner
Pubbl/distr/stampa	Oxford, [England] ; ; New York, New York : , : Oxford University Press, , 2004 ©2004
ISBN	0-19-756221-3 1-280-42812-0 1-4237-2091-1 0-19-534665-3 1-60256-504-X
Descrizione fisica	1 online resource (159 p.)
Collana	Oxford scholarship online
Disciplina	577.144
Soggetti	Atmospheric carbon dioxide - Evolution Carbon cycle (Biogeochemistry)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2004.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; 1. Introduction; 2. Processes of the Long-Term Carbon Cycle: Chemical Weathering of Silicates; 3. Processes of the Long-Term Carbon Cycle: Organic Matter and Carbonate Burial and Weathering; 4. Processes of the Long-Term Carbon Cycle: Degassing of Carbon Dioxide and Methane; 5. Atmospheric Carbon Dioxide over Phanerozoic Time; 6. Atmospheric O <sub>2</sub> over Phanerozoic Time; References; Index
Sommario/riassunto	The Phanerozoic Carbon Cycle applies an earth system science approach to the study of the long-term carbon cycle, which involves the transfer of carbon between rocks and the atmosphere, oceans and life. Theoretical modeling is used to calculate how levels of atmosphere CO <sub>2</sub> and O <sub>2</sub> have changed over the past 550 million years.