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	 The Influence on the Earth's Climate of the Solar System Moving Around the Galactic Centre and Crossing Galaxy Arms4. The Influence of Molecular-dust Galactic Clouds on the Earth's Climate; 5. The Influence of Interplanetary Dust Sources on the Earth's Climate; 6. Space Factors and Global Warming; 7. The Influence of Asteroids on the Earth's Climate; 8. The Influence of Nearby Supernova on the Earth's Climate; 9. Discussion and Conclusions; Acknowledgments; References; Chapter 4: The Role of Volcanic Activity in Climate and Global Change; 1. Introduction Aerosol Loading, Spatial Distribution and Radiative Effect3. Volcanoes and Climate; 4. Summary; Acknowledgments; References; Chapter 5: The Role of Variations of the Earth's Orbital Characteristics in Climate Change; 1. Introduction; 2. Astronomical Parameters; 3. Orbital-Induced Climate Change; 4. Conclusion; References; Part II: A Geological History of Climate Change; Chapter 6: A Geological History of Climate Change; 1. Introduction; 2. Climate Models; 3. Long-Term Climate Trends; 4. Early Climate History; 5. Phanerozoic Glaciations; 6. The Mesozoic-Early Cenozoic Greenhouse Development of the Quaternary Icehouse8. Astronomical Modulation of Climate; 9. Milankovitch Cyclicity in Quaternary (Pleistocene) Climate History; 10. Quaternary Sub-Milankovitch Cyclicity; 11. The Holocene; 12. Climate of the Anthropocene; 13. Conclusions; Acknowledgement; References; Part III: Indicators of Climate and Global Change; Chapter 7: Changes in the Atmospheric Circulation as Indicator of Climate Change; 1. Introduction; 2. The General Circulation of the Atmosphere; 3. The Poleward Expansion of the Tropical Circulation; 4. The Decreasing Intensity of the Tropical Circulation
Sommario/riassunto	The climate of the Earth is always changing. In the past it has altered as a result of natural causes. Nowadays, however, the term climate change is generally used when referring to changes in our climate which have been identified since the early part of the 1900's. The changes we've seen over recent years and those which are predicted over the next 80 years are thought to be mainly as a result of human behaviour rather than due to natural changes in the atmosphere.* gives all the scientific details of possible causes and all the scientific evidence we have for climate change, in one