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Nota di contenuto	""BASIC RESEARCH OPPORTUNITIES IN Earth Science""; ""Copyright""; ""Acknowledgments""; ""Preface""; ""Contents""; ""Executive Summary""; ""OPPORTUNITIES FOR BASIC RESEARCH""; ""PRINCIPAL FINDINGS AND RECOMMENDATIONS""; ""Long-Term Support of Investigator-Driven Science""; ""Mechanisms for Multidisciplinary Research""; ""Instrumentation and Facilities""; ""Education""; ""PARTNERSHIPS IN EARTH SCIENCE""; ""REQUIRED RESOURCES""; ""1 Basic Earth Science and Society ""; ""INTRODUCTION""; ""Role of the National Science Foundation""; ""Organization of the Report"" ""APPLICATIONS OF BASIC EARTH SCIENCE TO NATIONAL PROBLEMS""" Natural Resources"; ""Energy""; ""Minerals and Other Raw Materials""; ""Water""; ""Soil""; ""Natural Hazards""; ""Geoscience-Based Engineering""; ""The Environment""; ""National Defense and Global Security""; ""THE AGENDA FOR BASIC RESEARCH""; ""Reading the Record of Terrestrial Change and Extreme Events""; ""Observing the Active Earth""; ""2 Science Opportunities ""; ""THE CRITICAL ZONE: EARTH'S NEAR-SURFACE ENVIRONMENT""; ""Science Opportunities""; ""Global Climate Change and the Terrestrial Carbon Cycle""

""The Interactions of Life, Water, and Minerals""; ""The Land-Ocean Interface""; ""Tectonics, Climate, and Weathering""; ""Earth History""; ""New Tools and Observations""; ""Need for Coordinated Field Work and Integrated Modeling""; ""GEOBIOLOGY""; ""Recent Advances""; ""Climate Studies""; ""Biological Controls on Earth Chemistry""; ""Molecular Geobiology""; ""Evolutionary Innovations""; ""Environmental and Ecological Dynamics""; ""New Tools and Capabilities""; ""Science Goals and Challenges""; ""EARTH AND PLANETARY MATERIALS""; ""Recent Advances""; ""Science Opportunities""

""Development of Intense Neutron Beams and Other Powerful New Probes of Material Properties""; ""Retrieval of Samples From Other Planets, Interplanetary Space, and Comets""; ""Application of Molecular Biology to Earth Materials""; ""Long-Term Observations in Natural Laboratories""; ""THE CONTINENTS""; ""Recent Advances""; ""Science Opportunities""; ""Surface Processes, Climate, and Tectonics""; ""Active Deformation""; ""Fluids in the Crust""; ""Lower Continental Crust""; ""Continental Deep Structure""; ""EarthScope—A Major Initiative""; ""DEEP INTERIOR""; ""Major Areas of Investigation""

""Mantle Convection and Geochemical Reservoirs""; ""The Core-Mantle Boundary (CMB)""; ""The Core Dynamo and Magnetic Field""; ""Inner Core""; ""Disciplinary Advances""; ""Seismology""; ""Geomagnetic Studies""; ""Geochemistry Studies""; ""High-Pressure Studies of Earth Materials""; ""THE PLANETS""; ""Promise of Planetary Exploration""; ""Science Opportunities""; ""Analytical Challenges""; ""3 Findings and Recommendations""; ""LONG-TERM SUPPORT OF INVESTIGATOR-DRIVEN SCIENCE""; ""Geobiology""; ""Earth and Planetary Materials""; ""Hydrology, Geology, and the Critical Zone""; ""Hydrology""; ""Geology""

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